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The 1987 Helicopter Annual Publisher's Note

This fifth edition of the Helicopter Annual is especially significant. The Annual has become a valuable reference for the entire industry, having evolved in accordance with the preferences expressed by the many readers and users.

This edition has been prepared under the very able direction of a highly-respected professional, who has earned an excellent reputation as a journalist, editor and publisher: L. Kim Smith.

The 1987 Helicopter Annual is a striking departure from its predecessors in both content and format. It has been revamped and now includes an alphabetical index to all HAI members, a new independent editorial concept with articles authored by L. Kim Smith, and more detailed listings for each operator, supplier and manufacturer. Also, this edition was typeset in-house using HAI's own computer system.

As publishers we look foward to your evaluation of the Annual's "new look." Please let us hear from you.

Also note that the pages of the 1988 Helicopter Annual are blank. This is an excellent opportunity for you to make your views known and influence this significant industry.

Thank you for your continued support of the Helicopter Annual.

Wanda L. Rogers
Frank L. Jensen, Jr.

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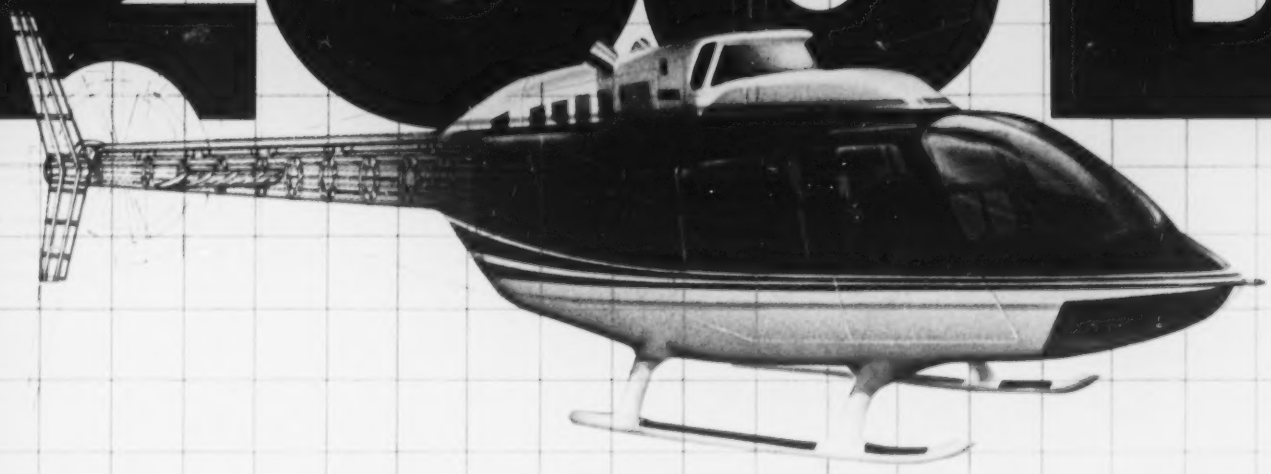

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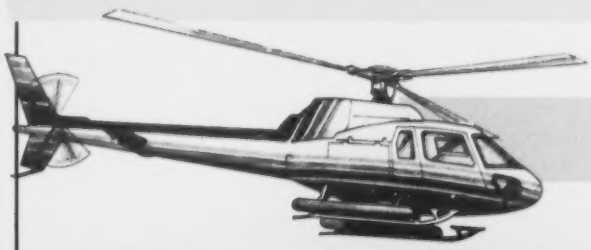

...performance takes on new meaning. All these advanced EMS and rescue aircraft have highly specialized features — features that spell the difference between life and death.

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Dedication

This fifth edition of The Helicopter Annual
is dedicated to Timothy M. Biddle, Esq.
for his foresight in advocating the creation
of the first Helicopter Annual. We also thank
him for his continued enthusiasm
and support for HAI.

Key Helicopter Statistics

The most requested statistical data about helicopters.

HAI continues to be a focal point for requests for information on statistics of all kinds on our industry. For the most part, we have to rely on government sources such as the Federal Aviation Administration (FAA) for statistics.

HAI is continuing its efforts to provide better statistics on the industry, both nationally and internationally. We have carefully reviewed the statistics and they are the most accurate available. We will continue to work with the National Transportation Safety Board (NTSB), the FAA and other government agencies to continue to develop accurate data on the helicopter industry.

Total U.S. helicopter fleet by model and series
(as of July 1986)

The following section breaks out the fleet by manufacturer, model and series.
Source: Aircraft Title Service

Manufacturer	Model/ series	Type of engine	No. of engines	No. of aircraft
Aerospatiale	SA 313	Turbine	1	3
	SA 315	Turbine	1	79
	SA 316	Turbine	1	55
	SA 318	Turbine	1	22
	SA 319	Turbine	1	4
	SA 330	Turbine	1	13
	SA 332	Turbine	2	5
	SA 341	Turbine	1	45
	SA 350	Turbine	1	272
	SA 355	Turbine	2	172
	SA 360	Turbine	1	11
	SA 365	Turbine	2	11
			Total Aerospatiale	692
Agusta	A 109	Turbine	2	86
	AB 206	Turbine	1	2
			Total Agusta	88
Bell	47 (All)	Recip	1	1509
	204, 205	Turbine	1	276
	206 A/B	Turbine	1	1713
	206L (All)	Turbine	1	657
	212	Turbine	2	140
	214 A/B	Turbine	1	15
	214 ST	Turbine	2	20
	222 (All)	Turbine	2	114
	301	Turbine	2	2
	400	Turbine	2	3
	412	Turbine	2	62
			Total Bell	4,511
Boeing Vertol	107 (All)	Turbine	2	10
	H21	Recip	1	1
	CH47	Turbine	2	7
	234	Turbine	2	5
			Total Boeing Vertol	23
Enstrom	F-28	Recip	1	348
	T-28	Turbine	1	2
	280 (All)	Recip	1	156
			Total Enstrom	506
Hiller	UH-12	Turbine	1	19
	UH-12	Recip	1	591
	OH-23 (All)	Recip	1	151
	HH-120	Recip	1	1
	HJ-1	Unk	1	1
	YH-32	Unk	1	2
	YROE-1	Recip	1	1
			Total Hiller	766
Hughes	269 (All)	Recip	1	770
	369 (All)	Turbine	1	727
	500 (All)	Turbine	1	16
	OH6 (All)	Turbine	1	11
	TH55 (All)	Recip	1	120
			Total Hughes	1644
MBB	BO-105C	Turbine	2	57
	BO-105S	Turbine	2	72
	BO-105/ CBS	Turbine	2	5
	BK-117	Turbine	2	46
			Total MBB	180
Robinson	R22 (All)	Recip	1	353
			Total Robinson	353
Sikorsky	R4	Recip	1	4
	R5	Recip	1	1
	R6	Recip	1	1
	S-51	Recip	1	9
	S-52	Recip	1	16
	S-55/ H-19	Recip	1	120
	S-55B	Turbine	1	8
	S-56/ H-37	Recip	2	47
	S-58/ H-34	Recip	1	146
	S-58T	Turbine	1	47
	S-61/ H-3	Turbine	2	21
	S-62	Turbine	1	6
	S-64	Turbine	2	7
	S-70	Turbine	2	1
	S-72	Turbine	2	2
	S-76	Turbine	2	162
			Total Sikorsky	598
Westland	WS-55	Turbine	1	1
	WG-30	Turbine	2	9
			Total Westland	10

Number of helicopters by manufacturer and percent total fleet (as of July 1986)

Manufacturer	Helicopter titled	Percent total
Aerospatiale	692	7.10
Agusta	88	.90
Bell	4511	46.30
Boeing Vertol	23	.24
Enstom	506	5.19
Hiller	766	7.86
Hughes	1644	16.87
MBB	180	1.85
Robinson	353	3.62
Sikorsky	598	6.14
Westland	10	0.10
Other	372	3.82
Total	**9743**	**100.0**

Source: Insured Aircraft Title Service

U.S. civil helicopter production

Year	Domestic	Export	Total
1970	150	332	482
1971	171	298	469
1972	319	256	575
1973	342	428	770
1974	433	395	828
1975	528	336	864
1976	442	315	757
1977	527	321	848
1978	536	368	904
1979	570	459	1,029
1980	841	525	1,366
1981	619	453	1,072
1982	333	254	587
1983	187	216	403
1984	143	233	376
1985	239	137	376
Total	**6,380**	**5,326**	**11,706**

Source: AIA, GAMA, Department of Commerce

U.S. exports of civil helicopters

Region of Destination	1981	1982	1983	1984	1985
Canada Greenland	78	17	16	8	12
Latin America Caribbean	140	63	38	32	25
Europe	71	49	51	89	18
Middle East	21	13	48	12	6
Asia	70	38	44	62	51
Oceania	32	21	8	25	18
Africa	41	53	11	5	7
Total Exported	**453**	**254**	**216**	**233**	**137**
Value in Millions of Dollars					
Canada Greenland	$ 40.6	$ 15.2	$ 9.7	$ 4.1	$ 5.1
Latin America Caribbean	89.5	49.5	47.0	42.0	19.0
Europe	91.8	42.0	50.7	52.8	5.4
Middle East	27.2	12.9	48.6	16.3	24.5
Asia	65.3	50.4	59.2	107.5	141.0
Oceania	19.5	10.6	1.1	9.3	9.5
Africa	12.5	25.3	15.8	1.8	5.3
Total Value	**346.4**	**205.9**	**232.1**	**233.8**	**209.8**

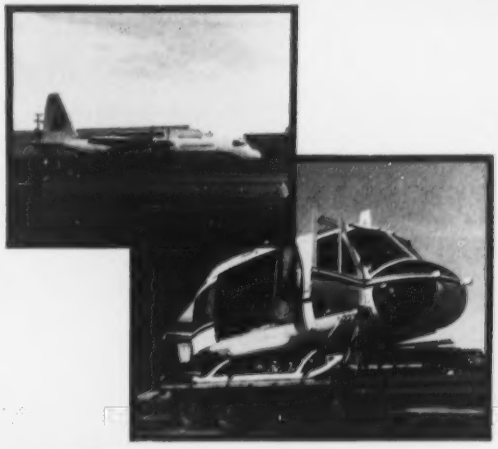
Source: U.S. exports, Schedule B, commodity by country

U.S. imports of civil helicopters

Country of Origin	1981	1982	1983	1984	1985
France	193	167	46	13	13
Germany	12	15	48	16	35
Italy	8	1	1	30	8
United Kingdom		1	5	2	4
Total Imported	**213**	**184**	**100**	**61**	**60**
Value in Millions of Dollars					
France	$ 92.4	$ 74.2	$ 39.6	$ 14.9	$ 13.7
Germany	6.9	8.9	35.8	9.7	19.9
Italy	6.1	1.1	.8	19.2	3.9
United Kingdom		.7	13.3	7.5	7.2
Total Value	**$105.4**	**$84.9**	**$89.5**	**$51.3**	**$44.7**

Source: "U.S. Imports for consumption and general imports," Bureau of Census

Chopper Hopper



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U.S. civil helicopter accident trends 1980 - 1985

Year	Accident Rate	Fatal Rate
1980	9.07	1.24
1981	8.00	0.86
1982	8.41	1.23
1983	8.46	1.40
1984	9.78	1.56
1985p	8.07	1.56

RATES ARE ACCIDENTS PER 100,000 FLIGHT HOURS.

Source: Federal Aviation Administration (FAA)

Civil helicopter operators and helicopters operated in North America U.S., Canada, Mexico and Puerto Rico

Civil helicopter operators

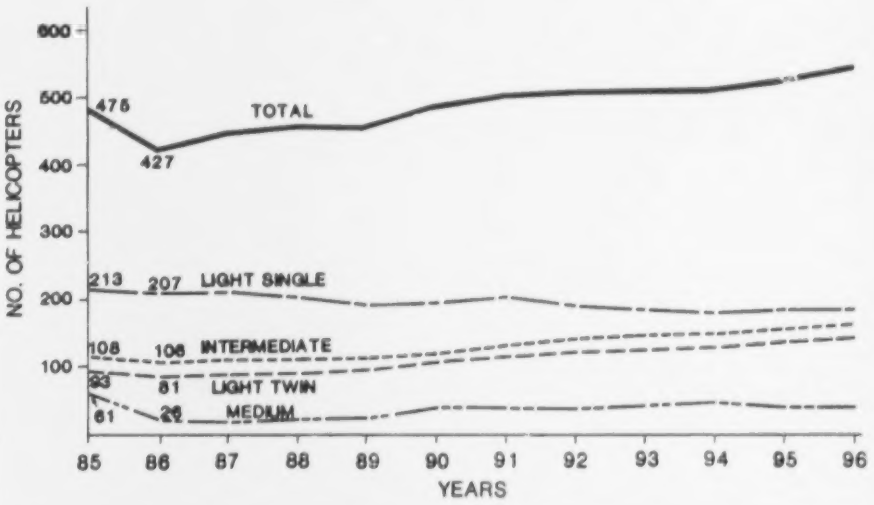
Year	Total	Commerical	Corp/exec	Civil govt.,[b]
1965	860	508	299	53
1966	933	519	353	61
1967	1,023	522	427	74
1969	1,379	689	596	94
1971	1,424	672	590	162
1972	1,491	758	566	167
1973	1,532	752	599	181
1974	1,536	725	608	203
1975	1,891	779	833	279
1976	2,330	911	1,082	337
1977	2,547	959	1,219	369
1978	3,003	1,126	1,515	362
1980b	2,573	1,065	1,160	348
1982	2,688	1,188	1,158	342
1985	2,481	1,136	1,051	294

Helicopters operated[a]

1965	2,053	1,537	401	115
1966	2,318	1,699	475	144
1967	2,438	1,764	487	187
1969	3,433	2,390	770	273
1971	3,874	2,605	802	467
1972	4,185	2,992	745	448
1973	4,601	3,295	780	526
1974	4,819	3,418	778	623
1975	5,222	3,342	1,056	824
1976	6,181	3,702	1,392	1,087
1977	7,160	4,294	1,578	1,288
1978	8,023	4,904	1,891	1,228
1980b	8,576	5,581	1,635	1,360
1982	8,884	5,874	1,728	1,282
1985	7,904	5,270	1,552	1,082

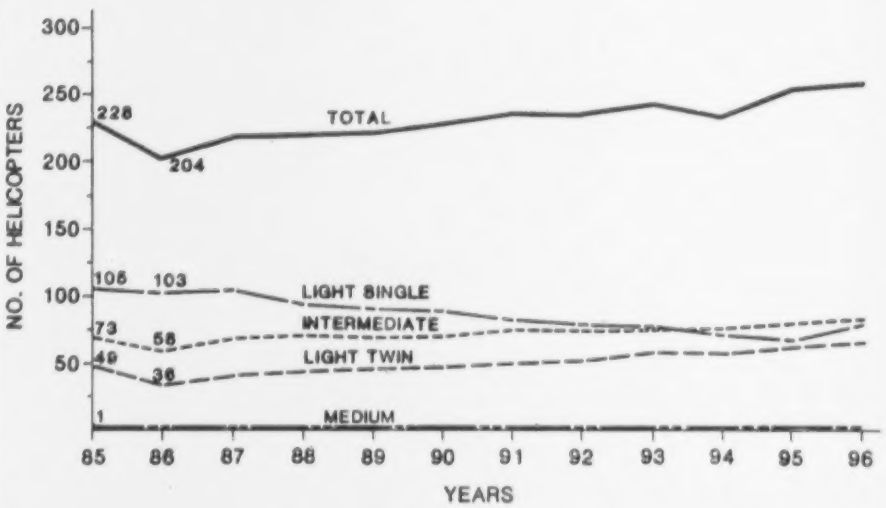
Source: Aerospace Industries Association
a. Effective 1982, includes Mexico.
b. Federal, state and local governments

Civil Helicopter Shipments Worldwide Forecast: 1986 - 1996



Source: National Research Council, Transportation Research Board

Civil Helicopter Shipments to the U.S. Market Forecast: 1986 - 1996

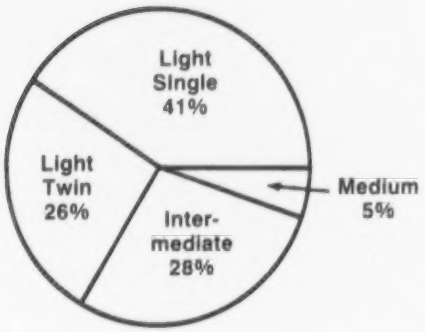


Source: National Research Council, Transportation Research Board

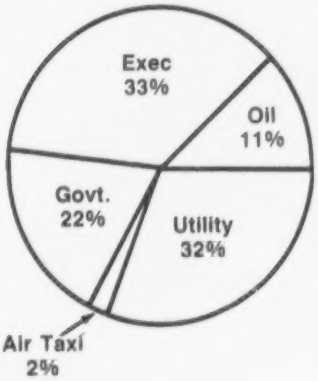
Civil Market Outlook
1987-1996

New Sales — Units

Weight Class



Mission



Total: 4700 Aircraft

Source: Sikorsky Aircraft

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Heliport and Helipad Statistics

This heliport statistical data was compiled by HAI's Heliports Department and is based on source data from the Federal Aviation Administration's (FAA) National Flight Data Center (NFDC) in Washington, D.C. as of October 31, 1986. The NFDC official repository includes permanent heliports which have been reported to the FAA. These statistics do not include temporary heliports, offshore heliports, or infrequently used helicopter landing sites.

Although not included in these statistics, it is important to note that there has been an overall 42 percent growth in private and public heliports from 1970 through 1986, according to the FAA.

1986 U.S. Heliport/Helipad Statistics By State (includes Puerto Rico and the Virgin Islands)

State	Total* of heliports in state	Private Public Heliports	Heliports at Airports Heliports	Hospital	Military Government
Alaska	30	20/10	7/23	1	1/19
Alabama	40	38/2	1/39	14	5/10
Arkansas	14	14/0	1/13	10	3/3
Arizona	76	75/1	2/74	29	1/6
California	319	296/23	21/298	65	10/104
Colorado	103	99/4	4/99	36	1/25
Connecticut	47	44/3	2/45	3	1/3
District of Columbia	19	17/2	2/17	3	4/11
Delaware	14	13/1	0/14	0	0/2
Florida	155	154/1	0/155	49	4/25
Georgia	73	72/1	1/72	25	6/20
Hawaii	18	14/4	3/15	5	1/10
Iowa	44	43/1	1/43	27	5/9
Idaho	19	19/0	0/19	9	1/7
Illinois	187	182/5	4/183	84	6/29
Indiana	83	78/5	4/79	22	3/5
Kansas	22	19/3	3/19	12	0/4
Kentucky	26	25/1	0/26	11	1/3
Louisiana	154	148/6	3/151	31	3/20
Massachusetts	53	49/4	2/51	10	8/11
Maryland	46	44/2	2/44	16	2/9
Maine	8	7/1	0/8	2	0/2
Michigan	51	49/2	1/50	12	0/6
Minnesota	19	17/2	3/16	4	0/5
Missouri	71	66/5	4/67	38	7/10
Mississippi	18	18/0	0/18	7	1/7
Montana	14	12/2	0/14	9	0/3
North Carolina	47	45/2	1/46	19	5/17
North Dakota	5	5/0	0/5	1	1/1
Nebraska	19	19/0	1/18	10	1/2
New Hampshire	10	9/1	1/9	0	0/0
New Jersey	166	161/5	0/166	14	6/36
New Mexico	13	12/1	0/13	5	0/4
Nevada	26	25/1	0/26	6	1/10
New York	113	102/11	2/111	23	7/26
Ohio	170	143/27	7/163	50	3/35
Oklahoma	43	39/4	0/43	19	1/6
Oregon	60	57/3	2/58	29	3/6
Pennsylvania	227	216/11	1/226	54	9/25
Puerto Rico	13	13/0	0/13	1	1/3
Rhode Island	6	5/1	0/6	1	1/3
South Carolina	13	13/0	0/13	4	3/3
South Dakota	4	4/0	0/4	0	1/1
Tennessee	40	37/3	2/38	11	2/6
Texas	374	364/10	2/372	66	7/40
Utah	28	26/2	2/26	11	2/5
Virginia	82	77/5	2/80	31	8/25
Virgin Islands	2	2/0	0/2	0	0/2
Vermont	13	12/1	0/13	1	9/9
Washington	86	84/2	2/84	28	5/12
Wisconsin	22	22/0	0/22	7	1/4
West Virginia	23	23/0	0/23	8	0/1
Wyoming	12	11/1	1/11	4	0/3
Totals U.S. (50 States)	3325	3143/182	97/3228	936	150/650
Totals U.S., Puerto Rico Virgin Islands	3340	3158/182	97/3245	937	151/655

94.6 percent of all U.S. helicopter landing areas are private, while 5.4 percent are public. 28.1 percent of all U.S. helicopter landing areas are at hospitals. 97.1 percent are at heliports/helipads while 2.9 percent are at airports.

1986 Operators/Owners of Helipads (includes Puerto Rico and the Virgin Islands)

State	Corp.	Indiv.	Hotels	Oil	Govt.	Hospitals
Alaska	8	2	0	1	19	1
Alabama	12	4	0	0	10	14
Arkansas	0	1	0	0	3	10
Arizona	35	4	1	0	6	29
California	146	14	9	14	104	65
Colorado	37	5	2	2	25	36
Connecticut	40	2	1	0	3	3
District of Columbia	6	1	0	2	11	3
Delaware	10	2	0	0	0	0
Florida	55	2	4	0	25	49
Georgia	21	6	3	0	20	25
Hawaii	3	1	0	0	10	5
Iowa	4	3	1	0	4	27
Idaho	2	3	0	0	7	9
Illinois	51	23	3	0	29	84
Indiana	24	18	3	0	14	22
Kansas	3	1	0	0	5	12
Kentucky	8	3	1	0	3	11
Louisiana	98	4	3	67	20	31
Massachusetts	22	6	1	0	11	10
Maryland	13	7	1	0	9	16
Maine	4	0	0	0	2	2
Michigan	23	9	3	0	6	12
Minnesota	8	5	0	0	5	4
Missouri	10	11	3	0	10	38
Mississippi	1	3	0	0	7	7
Montana	0	2	0	0	3	9
North Carolina	10	3	0	0	17	19
North Dakota	1	2	0	0	1	1
Nebraska	3	4	0	0	2	10
New Hampshire	8	1	0	0	1	0
New Jersey	84	24	5	4	36	14
New Mexico	3	2	0	0	4	5
Nevada	5	0	3	0	12	6
New York	53	11	0	0	26	23
Ohio	56	26	4	1	35	52
Oklahoma	13	4	1	2	6	19
Oregon	25	11	1	0	6	29
Pennsylvania	103	38	7	4	25	54
Puerto Rico	10	0	0	0	3	1
Rhode Island	2	0	0	0	3	1
South Carolina	6	2	0	2	3	4
South Dakota	1	2	0	0	1	0
Tennessee	35	8	0	1	6	11
Texas	203	72	5	38	42	66
Utah	7	3	1	0	7	11
Virginia	23	7	0	2	25	31
Virgin Islands	0	0	0	0	2	0
Vermont	2	1	0	0	0	1
Washington	28	15	2	0	12	28
Wisconsin	5	7	0	0	4	7
West Virginia	10	3	1	0	1	6
Wyoming	4	1	0	1	3	4
Totals	1319	582	65	155	650	937

Corporate operator/owners control 37.8 percent of all helicopter landing areas; hospitals control 26.9 percent; government 18.6 percent; individuals 10.9 percent; oil companies 3.9 percent; and hotels 1.9 percent.

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World Civil Helicopter Records

Class E-1 helicopters

Without payload

6/21/72
Altitude **12,442m/40,820ft**

Jean Boulet (France)
Alouette SA 315-001 Lama
Artouste 111B 735 KW
Istres

3/26/66
Distance in a closed circuit **2,800.20km/1,739.96mi**

Jack Schweibold (USA)
Hughes YOH-6A No. 24213
1 Allison T-63-A-5
Edwards AFB, California

4/6-7/66
Distance in a Straight line **3,561.55km/2,213.04mi**

Robert G. Ferry (USA)
Hughes YOH-6A No. 24213
1 Allison T-63-A-5
Culver City, California to
Ormond Beach, Florida

9/1-30/82
Speed around the world **56.97kph/35.40mph**

H. Ross Perot, Jr.,pilot (USA)
J.W. Coburn, co-pilot
Bell 206L-11 LongRanger
Allison 250-C28B, 435 hp
29 days, 3 hours, 8 minutes, 13 seconds

8/5/82-7/22/83
Around the world (solo) **56,765.38km/35,258mi**

Dick Smith (Australia)
Bell JetRanger 111
Allison 250-C-20 J,420shp

12/14/70
Speed over a 3km course **348.971kph/216.839mph**

Byron Graham (USA)
Sikorsky S-67
2 GE T-58
Windsor Locks, Connecticut

8/11/86
Speed over a 15kmm course **400.87kph/249.10mph**

Trevor Egginton (UK)
Westland G-Lynx
2 Rolls Royce Gem MK-531
Yeovil, Somerset, England

Closed circuit

8/26/64
100km speed **340.15kph/211.35mph**

Boris Galitsky (USSR)
Mil Mi-6; 2 TB-2BM
Podmoscovnoe

2/8/82
500km speed **345.74kph/214.84mph**

Thomas Doyle (USA)
Sikorsky S-76
2 Allison 250-C-30, 640 shp
West Palm Beach, Florida

Class E-1a, light helicopters

Less than 500kgs/1,102 lbs

12/29/53
Altitude **4,789m/15,712ft**

Jean Dubos (France)
SNCASO Djinn 2
Tubomeca Palouste
Villacoublay

10/19/85
Distance in a Closed circuit **88kms/196.29mi**

Richard Fenwick
Robinson R22
1 Lycoming 0320
Toussus-Deauville-Toussus

5/11/82
Distance in a Straight line **263.615km/163.803mi**

Ivan D. Blackburn (Canada)
Robinson R-22
Lycoming 0-320 124 hp
Patridge Point, Sudburg

5/11/82
Speed over a 3km course **176kph/109mph**

Richard G. Kirkwood (Canada)
Robinson R-22 Lycoming 0-320, 124 hp
Sault Ste. Marie, Ontario

Closed circuit

5/12/82
100 km speed **170.817kph/106.141mph**

Gary J. Ertel (USA)
Robinson R-22
Lycoming 0-320, 124 hp
Sault Ste. Marie, Ontario

Class E-1b, light helicopters

500-1,000kgs/1,102-2,204lbs

6/21/72
Altitude **12,424m/40,820ft**

Jean Boulet (France)
Alouette SA 315-001 Lama
Artouste III B 735
Istres

3/21/66
Distance in a closed circuit **1,700.124km/1,056.408mi**

Jack L. Zimmerman (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

2/8/61
Distance in a Straight line **1,176.79km/731.15mi**

A.P. Averill (USA)
Bell 47-G
Franklin 0-335
El Paso to Texarkana, Texas

3/24/66
Speed over a 3km course **274.73kph/170.70mph**

Lt. Col. Richard T. Heard (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

Closed circuit

3/13/66
100km speed **259.47kph/161.22mph**

Maj. A.L. Darling (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

3/13/66
500km speed **254.59kph/158.19mph**

Maj. A.L. Darling (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

Class E-1c, light helicopters
1,000-1,750kg/2,204-3,858lbs

4/6-7/66
Altitude **10,856m/35,617ft**

Jean Boulet (France)
Alouette SA 351-001
Artouste III B 735 KW
Istres

3/26/66
Distance in a closed circuit **2,800.20km/1,739.96mi**

Jack Schweibold (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

4/6-7/66
Distance in a straight line **3,561.55km/2,213.04mi**

Robert G. Ferry (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Culver City, California to Ormond Beach, Florida

5/13/71
Speed over a 3km course **310kph/192.6mph**

Dennis Prost (France)
SA 341-01 Gazelle
Istres

Closed circuit

5/13/71
100km speed **296kph/183.9mph**

Dennis Prost (France)
SA 341-01 Gazelle
Istres

3/12/66
500km speed **249.84kph/155.24mph**

Col. David M. Kyle (USA)
Hughes YOH-6A
1 Allison T-63-A-5
Edwards AFB, California

Class E-1d, light helicopters
1,750-3,000kg/3,858-6,614lbs

12/11/64
Altitude **10,713.7m/35,150ft**

Maj. E.F. Sampson (USA)
Bell UH-1D
1 Lycoming T-52-L-13
Fort Worth, Texas

4/17/68
Distance in a closed circuit **1,528.77km/949.93mi**

Alexay Annossov (USSR)
Mil M1-1; AL-26B

4/20/74
Distance in a straight line **1,714.837km/1,065.55mi**

Siegfried Hoffman (W. Germany)
Adam Teleki
BO 105-C, D-HABV
2 Allison 250-C-20, 640 shp
Ottobrun, W. Germany to
Hinojosa de Duque, Spain

2/6/82
Speed over a 3km course **342.61kph/212.90mph**

Nicholas Lappos (USA) Sikorsky S-76 West Palm Beach, Florida

Closed circuit

2/6/82
100km speed **331.22kph/205.82mph**

David Wright (USA)
Sikorsky S-76
West Palm Beach, Florida

11/23/64
500km speed **286.83kph/178.22mph**

Maj. Billy L. Odneal (USA)
Bell UH-1D
1 Lycoming T-53-L-13
Fort Worth, Texas

Class E-1e, light helicopters
3,000-4,500kg/6,614-9,920lbs

4/29/75
Altitude **9,071m/29,760ft**

Maj. Gen. M. Khosrowdad (Iran)
Bell Model 214A
1 Lycoming LTC4B-8D
Ahwaz

9/23/64
Distance in a closed circuit **2,000.146km/1,242.83mi**

CWO Joseph C. Watts (USA)
Bill UH-1D
1 Lycoming T-53-L-11
Edwards AFB, California

9/27/64
Distance in a straight line **2,170.70km/1,348.81mi**

Capt. Michael N. Antoniou (USA)
Bell UH-1D
1 Lycoming T-53-L-11
Edwards AFB, California to Rogers, Arizona

2/4/82
Speed over a 3km course **340.48kph/211.57mph**

William Kramer (USA)
Sikorsky S-76
2 Allison 250-C-30, 650 shp
West Palm Beach, Florida

8/11/86
Speed over a 15km course **400.87kph/249.10mph**

Trevor Egginton (UK)
Westland G-Lynx
2 Rolls Royce Gem MK-531
Yeovil, Somerset, England

Closed circuit

2/6/82
100km speed **334.688kph/207.97mph**

David Wright (USA)
Sikorsky S-76
2 Allison 250-C-30, 650 shp
West Palm Beach, Florida

2/8/82
500km speed **345.74kph/214.84mph**

Thomas Doyle (USA)
Sikorsky S-76
2 Allison 250-C-30, 650 shp
West Palm Beach, Florida

The Federal Aviation Administration (FAA) has a **Hotline** that can be used by anyone who wants to report an aviation safety concern. Call **800-FAA-SURE (322-7873),** Monday - Friday, 8 am - 4pm.

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*A listing of organizations with interest in the helicopter industry. Those organizations marked with * are also Affiliate Members of the Helicopter Association International. The □ indicates the telex number and the ♦ indicates the fax machine number.*

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***Helicopter Association of Southern Africa**
P.O. Box 18045
Rand Airport, Germiston
Transvaal 1419
27-11-827-2516
South Africa
□429 807
Executive Director: Cor. Z.A. Beek

Australia

***General Aviation Associaton**
452 Stinson Crescent
Bankstown Airport
Sydney N.S.W.
2200 Australia
☎02-709-2385 □AA122247
Secretary: Barry Thompson

***Helicopter Association of Australia**
P.O. Box 469
Paddington N.S.W.
2021 Australia
☎02-332-4622 □176765
President: Peter Vincent

Canada

Air Transport Association of Canada
747 Metropolitan Life Building
99 Bank Street
Ottawa, Ontario, K1P 6B9
Canada
☎613-233-7727
Chairman, Helicopter Committee: Georges Jo Delaney
c/o Viking Helicopters, Ltd.
P.O. Box 419
400 Cite Des Jeunes Blvd.
Saint Clet, PQ, J0P 1S0
Canada
☎514-455-5687 □05-25196

Aircraft Operations Group
150 Metcalfe Street
Suite 400
Ottawa, ON, K2P 1P1
Canada
☎613-230-5476
Chairman: C.J. Foster

***Harbor Heliport Society**
P.O. Box 23545
Vancouver, BC, V0N 3A0
Canada
☎604-273-1500
Secretary: Barry J. Janyk

International Civil Aviation Organization
1000 Sherbrooke St., West
Montreal, PQ, H3A 2R2
Canada
☎514-285-8219 □0524513
President: Dr. Assad Kotaite

France

***Groupement Francais de L'Helicoptere**
6 Rue Galilee, Paris Cedex, 16
75116 France
☎1-723-7252
President: Lionel Poilane

Germany

German Aerospace Industries Association
Bundesverband der Deutsche Luftfahrt
Raumfahrt
und Austrustungs Industrie
Konstantinstrase 90
D-5300 Bonn 2, West Germany
☎0228-330011 □0885-528 ♦0228/33 07 08

***German Helicopter Association**
Rossmarkt 10
6000, Frankfurt, West Germany
☎0611-295061

Helicopterzentrum e.V.
Box 1310, D-3062
Buekeburg, West Germany
☎05 722-5533
Chairman: Gehard Lange

Italy

***European Helicopter Operators Committee**
c/o Elitos Helicopters
Via Nicolo Paganini, 66
Florence 50127
Italy
☎55-43961 □570616 ♦55-4396221

New Zealand

Aviation Industry Association
Box 2045
Wellington 1
New Zealand
☎4-722-707
President: J.H. Roseingrave

Sweden

Swedish Helicopter Operators Association
Skrakvagen 119
18400 Akersberg
Sweden
Chairman, Safety Committee: Bertil Johansson

United Kingdom

Aviation Consultants Association
30 Eccleston Street
London, SW1, England
☎01-730-0471

***British Helicopter Advisory Board**
Knowles House, Cromwell Road
Redhill
Surrey RH1 1RR
England
☎0737-62371
Chief Executive: Capt. Eric Brown, R.N.

British Rotocraft Museum, Ltd.
The Airport, Weston-S-Mare
Avon, BS24 8EL
England
☎0934-822524
Chairman: Elfan ap Rees
Honorary Secretary: Brian Patch

European Helicopter Association
Knowles House, Cromwell Road
Redhill
Surrey RH1 1RR
England
☎737-62371
Secretary: Capt. Eric Brown, R.N.

General Aviation Manufacturers and Traders Association, Ltd.
26 High Street, Brill, Aylesbury
Buckinghamshire, HP18 9ST
England
☎0844-238389 □838 807
Chief Executive: A.B.J. Forman, M.B.E.

United States

Aerospace Industries Association of America (AIAA)
1725 DeSales Street, N.W.
Washington, D.C. 20036
☎202-429-4600
President: Don Fuqua

***Airborne Law Enforcement Association**
601 East Lafayette Street
Baltimore, MD 21202
☎301-396-2431
President: Major R.R. Raffensberger

Aircraft Owners and Pilots Association (AOPA)
421 Aviation Way
Frederick, MD 21701
☎301-695-2000
President: John L. Baker

***Alaska Air Carriers Association**
4134 Ingra, Suite 201
Anchorage, AK 99503
☎907-562-1272
President: Robert Jacobsen

***American Helicopter Society**
217 N. Washington Street
Alexandria, VA 22314
☎703-684-6777
Executive Director: John F. Zugschwert

***American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS)**
612 Pennsylvania Avenue
San Diego, CA 92103
☎619-542-0388
Executive Director: Nina Merrill

***Appalachian Helicopter Pilots Assn. (AHPA)**
Route 5 Box 40
Blountville, TN 37617
☎703-889-4000 (Virginia)
President: Bill R. Starnes

Army Aviation Association
1 Crestwood Road
Westport, CT 06880
☎203-226-8184
Executive Vice President: Arthur Kesten

***Bay Area Heliport Council**
c/o Aris Helicopters
1138 Coleman Avenue
San José, CA 95110
☎408-998-3266
Co-Chairman: Stephen R. Sullivan

***Commercial Helicopter Operators of California (CHOC)**
P.O. Box 4
Clovis, CA 93613
☎209-299-4903
President: Wanda Rogers

***Eastern Region Helicopter Council (ERHC)**
c/o Bristol-Myers Company
Hangar E
Westchester County Airport
White Plains, NY 10604
☎914-751-5766
President: John Dempsey

Flight Safety Foundation
5510 Columbia Pike
Arlington, VA 22204
☎703-820-2777
President: John H. Enders

Helicopter Airlines Association
c/o Resorts International Airlines, Inc.
900 Lincoln Harbor Heliport
Weehawken, NJ 07087
☎201-865-6900
President: Matthew S. Zuccaro

***Helicopter Association of America**
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646 ☐89-615 ♦683-4745
Chairman: Wanda L. Rogers

Helicopter Association International
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646 ☐89-615 ♦683-4745
President: Frank L. Jensen, Jr.

***Helicopter Association of Florida**
4806 S.W. 119 Terrace
Cooper City, FL 33330
☎305-434-1760
President: Don Mitchell

Helicopter Club
Div. of National Aeronautics Association
217 N. Washington Street
Alexandria, VA 22314
☎703-684-6777
President: John F. Zugschwert

***Helicopter Foundation International**
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646 ☐89-615 ♦683-4745
Chairman: Wanda L. Rogers

***Helicopter Operators of Texas**
P.O. Drawer 785
Porter, TX 77365
☎713-354-5606
President: Dr. Darrell T. Elkins

***Helicopter Safety Advisory Conference (HSAC)**
c/o Tenneco, Inc.
16951 JFK Boulevard
Houston, TX 77032
☎713-757-8107 ☐792-839
Advisor: Lynn Clough

***Metroplex Helicopter Association**
P.O. Box 111083
Arlington, TX 76007
☎214-330-8167
President: Frank Kearney

***Michigan Helicopter Association**
P.O. Box 2613
Southfield, MI 48037
☎313-941-2300
President: James Moore

***Mid-Atlantic Helicopter Association (MAHA)**
1611 N. Kent Street, Suite 905
Arlington, VA 22209
☎703-243-3633
President: Jack Thompson

National Aeronautics Association (NAA)
1400 Eye Street, N.W., Suite 550
Washington, D.C. 20005
☎202-898-1313
President: Major General Clifton von Kahn

National Agricultural Aviation Association (NAAA)
115 D Street, S.E., Suite 103
Washington, D.C. 20003
☎202-546-5722
Executive Director: Harold M. Collins

National Air Transportation Association (NATA)
4226 King Street
Alexandria, VA 22302
☎703-845-9000
President: Lawrence L. Burian

National Association of State Aviation Officials (NASAO)
777 14th Street, N.W., Suite 717
Washington, D.C. 20005
☎202-783-0588
Executive Vice President: Robert Warner

National Broadcast Pilots Association (NBPA)
c/o KW TV-9
P.O. Box 14159
Oklahoma City, OK 73113
☎405-843-6641
President: Leo Galanis, Jr.

National Business Aircraft Association (NBAA)
1200 18th Street, N.W.
Washington, D.C. 20036
☎202-783-9000 ☐904 186
President: Jonathan Howe

National EMS Pilots Association (NEMSPA)
P.O. Box 2354
Pearland, TX 77588
☎713-997-2563
President: Don Wright

***National Flight Nurses Association**
P.O. Box 68395
Virginia Beach, VA 23455
☎804-473-9743
President: Cynthia Hensleigh, R.N.

Naval Helicopter Association
3211 Jefferson Street
San Diego, CA 92110
☎619-299-8043
Industry Chairman: Roger McTighe

***New England Helicopter Pilots Association**
P.O. Box 88
Bedford, MA 01730
☎617-975-7181
President: Carl Towle

***Northwest Helicopter Association**
c/o EMS Helicopters
5796 Bancroft Road
Bellingham, WA 98225
☎206-671-6657
President: Allan E. Scott

***Ohio Helicopter Pilots Association**
c/o WBNS-TV
770 Twin Rivers Drive
Columbus, OH 43216
☎614-460-3769
President: Terry Ault

***Popular Rotorcraft Association, Inc.**
P.O. Box 570
Stanton, CA 90680
☎714-898-6555
President: Ken Brock

***Professional Helicopter Pilots Association of California**
P.O. Box 9558
Glendale, CA 91206
☎213-421-1742
President: Steve Hopp

***Tampa Bay Helicopters Association**
c/o Aviation Business Consultants
7507 S. Tamiami Trail, Suite 176
Sarasota, FL 33581
☎813-921-4941

The Twirly Birds
P.O. Box 18029
Oxon Hill, MD 20745
☎301-567-4407
Secretary: John Slattery

The Whirly Girls, Inc.
1619 Duke Street
Alexandria, VA 22314-3406
☎703-683-4646
Executive Director: Jean Ross Howard

***Western Helicopter Safety Advisory Council**
P.O. Box 1337
Provo, UT 84603
☎801-375-1124
Chairman: Donald G. Andrews

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The ☐ indicates the telex number and the ♦ indicates the company's fax machine number.

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Editor: Robert G. Rosenblatt

Aero Publishers, Inc.
Division of TAB Books, Inc.
P.O. Box 40
Blue Ridge Summit, PA 17214
☎717-794-2191 ☐820 562
Aviation Editor: Jeff Worsinger

Aerospace Facts and Figures
Aerospace Industries Association
of America, Inc.
1725 DeSales Street, N.W.
Washington, D.C. 20036
☎202-429-4600
Director, Research Center: Virginia C. Lopez

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Official Publication of the German Helicopter Association
The German International Aviation Magazine
Godesberger Allee 70
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West Germany
☎011-49-209-37431 ☐824727
Editor: Rolf Dorpinghaus

Air Beat
Sacramento County Sherrif's Department,
Building 1020
McClelan AFB, CA 95652
☎916-648-0682
Editor: Gordon Robinson

Aircraft Blue-Book Price Digest
Aircraft Blue-Book Inc.
P.O. Box 59977
Oklahoma City, OK 73159
☎405-942-7428
Editors: Bernie McGowan and Darwin McGowan

Aircraft Technical Publishers (ATP)
Helicopter Maintenance Libraries
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☎415-468-1705 ☐171 048

Aircraft Forecast
Forecast Associates Inc.
22 Commerce Road
Newton, CT 06470
☎203-426-0800 ☐467 615
Editor: Bill Dane

Asian Aviation
Asian Aviation Publications
Maritime House
Cantonment Road
Singapore 0208
☎225-5444 ☐RS 38587 ♦2258390
Editor: Colin Gibson

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Glendale, CA 91201
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☎203-325-2647
Editor: Jerry Greenwald

Aviation International News
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21 Cross Avenue
Midland Park, NJ 07432
☎201-444-5075
Editor: Jim Holahan

Aviation Daily
1156 15th Street, N.W.
Washington, D.C. 20005
☎202-822-4600
Editor: James E. Skinner

Aviation Week & Space Technology
1221 Avenue of the Americas
New York, NY 10020
☎212-512-4117
Editor: Donald E. Fink

Broadcast Aviation
53 W. 1800 Street
Orem, UT 84058
☎801-226-3060
Editor & Publisher: Howard M. Collett

Business and Commercial Aviation
Hangar C-1, Westchester County Airport
White Plains, NY 10604
☎914-948-1912
Editor: John W. Olcott

Business Aviation
1156 15th Street, N.W.
Washington, D.C. 20005
☎202-822-4600
Editor: David Collogan

Canadian Aviation
777 Bay Street
Maclean Hunter Bldg., 5th Floor
Toronto, ON M5W 1A7, Canada
☎416-596-5791
Editor: Hugh Whittington

Commuter Air
6255 Barfield Road
Atlanta, GA 30328
☎404-256-9800
Editor: David Massey

Commuter Regional Airline News
1925 North Lynn Street
Suite 304
Arlington, VA 22209
☎703-522-2354
Editor: Kathryn B. Creedy

Defence Helicopter World
The Shephard Press Ltd.
111 High Street, Burnham
Bucks SL1 7JZ, England
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Editor: Paul Beaver

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Publisher: Frank L. Jensen, Jr.

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5225 W. Old Orchard Road, Suite 44
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Editor: Barry D. Desfor

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☎309-682-6626
Author: R. W. Prouty

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News Plaza, P.O. Box 1790
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World Helicopter Marketing
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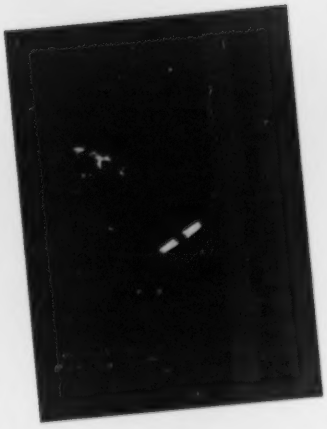

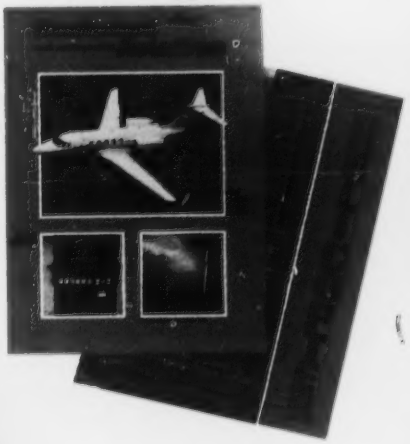

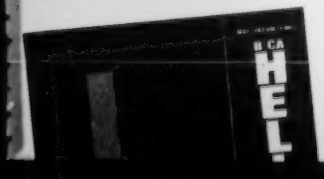

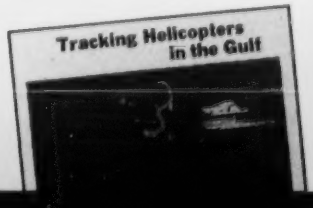

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Ministere des Transports et des Commun
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Ministry of Communications
Ankara, Turkey

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Calle Mercedes 1256
Montevideo, Uruguay

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Ing. Fernando Curiel
Director General de Sectorial de Transporte Aereo
Ministerio de Transporte y Communicacione
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Caracas 1010, Venezuela

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Director General of Civil Aviation & Met. Authority
P.O. Box 1042
Sena, Yemen Arab Republic

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President Federal Committee for Transport & Communications
Air Transport Sector
Bulevar AVNOJ 104
4U-11070 Belgrade, Yugoslavia

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S.P. Madyiwa
Director of Civil Acronautics Department
B.P. 6514
Kinshasa, Zaire

Zambia
Director of Civil Aviation Department
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Director Office of Essential Air Service: John V. Coleman	202-366-5903	S-60

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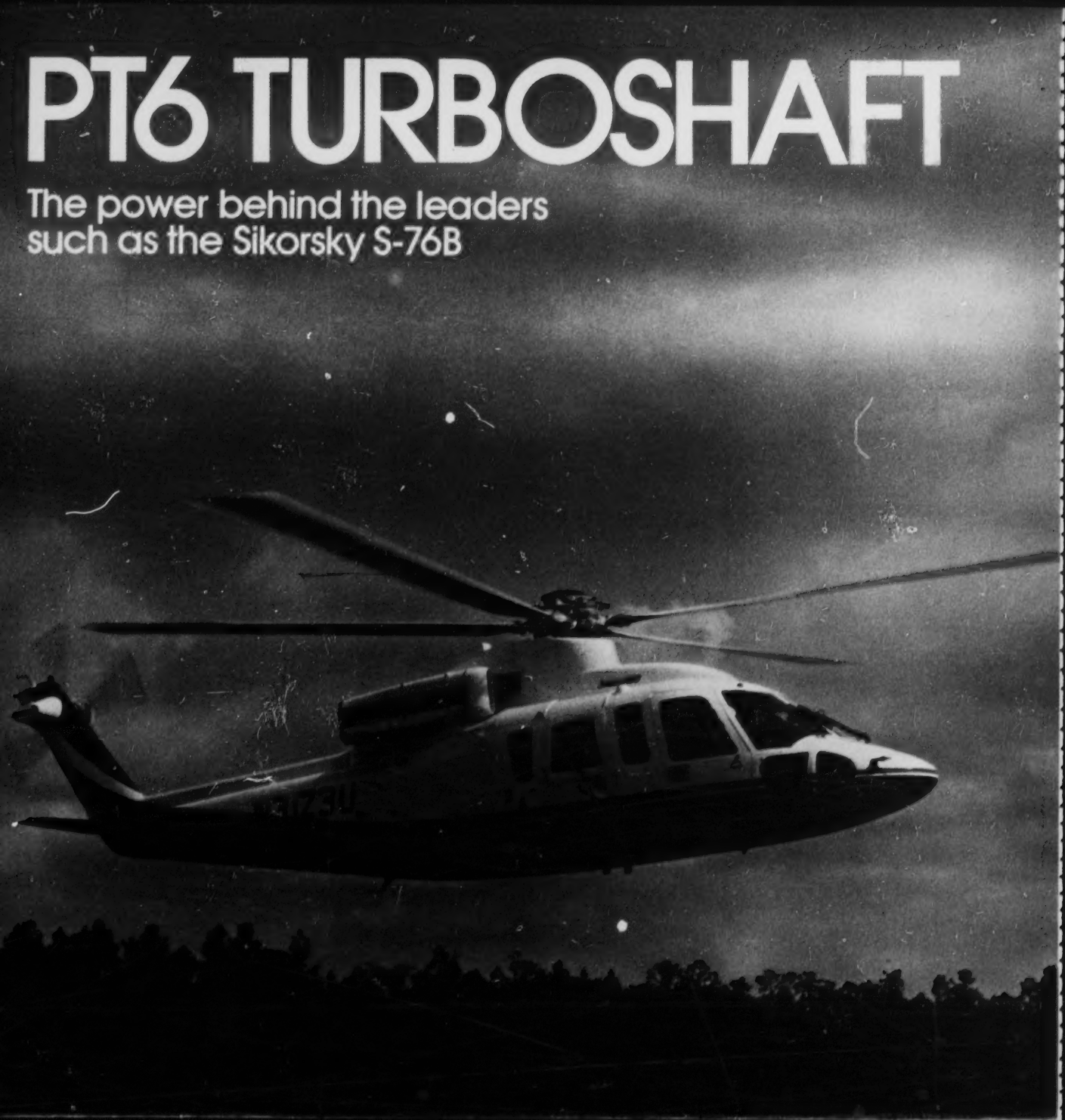

UNITED
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U.S. Civil Aviation Policymakers

The following legislators have assigned responsibilities in forming U.S. policy affecting commercial helicopter operations. The 100th Congress went into session after January 1987. Some of the new committee Chairmen had not been determined at press time. To find the current Chairmen use the phone numbers listed below.

Senators may be contacted at their direct telephone numbers or this address: U.S. Senate, Washington, D.C. 20510.

Representatives may be contacted at their direct telephone numbers or this address: U.S. House of Representatives, Washington, D.C. 20515.

The main information telephone number for the U.S. Congress is 202-224-3121.

For those interested, the following is a brief summary of the activities of the 99th Congress in its second session.

"Between January 21 and October 18, 1986, the Senate spent 1,278 hours and 15 minutes in session over 143 days; the House, 829 hours and 11 minutes over 129 days. Together they produced 29,034 pages of "Congressional Record"... and introduced a total of 3,825 measures, 1,519 of which passed."

Senate Committees

Sen. Frank Lautenberg (D-NJ)
Chairman, Transportation and Related Agencies Subcommittee
☎202-224-0330

Subcommittee on Export Promotion
☎202-224-5175

Sen. Lloyd M. Bentsen (D-TX)
Chairman, Finance Committee
☎202-224-4515

Subcommittee on Intergovernmental Relations
☎202-224-4718

Sen. William Proxmire (D-WI)
Subcommittee on HUD-Independent Agencies
☎202-224-7210

Sen. Donald W. Riegle, Jr. (D-MI)
Chairman, Subcommittee on Science, Technology and Space
☎202-224-9360

Sen. Sam Nunn (D-GA)
Chairman, Senate Armed Services Committee
☎202-224-3871

Sen. John C. Stennis (D-MS)
Chairman, Appropriations Committee
☎202-224-3471

Sen. Wendell H. Ford (D-KY)
Chairman, Aviation Subcommittee
☎202-224-9350

Sen. J. Bennett Johnston (D-LA)
Chairman, Committee on Energy and Natural Resources
☎202-224-4971

Subcommittee on Government Procurement
☎202-224-5175

Sen. Ernest F. Hollings (D-SC)
Chairman, Commerce, Science and Transportation Committee
☎202-224-5115

Sen. John Glenn (D-OH)
Chairman, Committee on Governmental Affairs
☎202-224-4751

Subcommittee on Innovation and Technology
☎202-224-5175

Sen. Quentin N. Burdick (D-ND)
Chairman, Environment and Public Works Committee
☎202-224-6176

Sen. John C. Stennis (D-MS)
Chairman, Subcommittee on Defense
☎202-224-7254

Transportation Subcommittee
☎202-224-7863

Sen. Dale Bumpers (D-AR)
Chairman, Committee on Small Business
☎202-224-5175

House Committees

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Chairman, Subcommittee on Defense
☎202-225-2847

Rep. Edward P. Boland (D-MA)
Chairman, Subcommittee on HUD-Independent Agencies
☎202-225-3241

Rep. Don Bonker (D-WA)
Chairman, Subcommittee on International Economic Policy and Trade
☎202-226-7820

Rep. Jack Brooks (D-TX)
Chairman, Committee on Government Operations
☎202-225-5051

Subcommittee on Commerce, Transportation and Tourism
☎202-226-3160

Rep. Robert A. Roe (D-NJ)
Chairman, Science and Technology Committee
☎202-225-6371

Transportation, Aviation and Materials Subcommittee
☎202-225-9662

Rep. James Howard (D-NJ)
Chairman, Public Works and Transportation Committee
☎202-225-4472

Subcommittee on Export Opportunities
☎202-225-9368

Rep. William Lehman (D-FL)
Chairman, Subcommittee on Transportation
☎202-225-2141

Rep. James Oberstar (D-MN)
Chairman, Subcommittee on Investigations and Oversight
☎202-226-3636

Rep. Norman Mineta (D-CA)
Chairman, Aviation Subcommittee
☎202-225-5821

Rep. John J. La Falce (D-NY)
Chairman, Committee on Small Business
☎202-225-5821

Rep. Dan Rostenkowski (D-IL)
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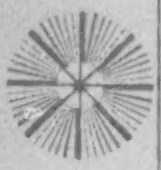

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The Directory of Federal & State Business Assistance: A Guide for New and Growing Companies ($19.00) is another useful source, available from the National Technical Information Service (NTIS), US Department of Commerce, Springfield, VA 22161 (703/487-4650).

Other publications of interest include *VHF-AM Communications Equipment Selection and Installation Practices for Helicopters* by E.H. Bolz and L.D. King, U.S. Department of Transportation, 1985, available from NTIS, and the *Forest Service Organizational Directory,* Department of Agriculture, 1986.

"Helicopter HOTLINE"

For up-to-the-minute information on federal helicopter contracts, consider an annual subscription to HAI's new service, the "Helicopter HOTLINE." For $25.00 a year for HAI members and $50.00 a year for non-members, HOTLINE subscribers get that information, and more.

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Philadelphia, PA 19111
215/697-2806

Special Operations Program Office
ASD-AFZ
Wright-Patterson Air Force Base
Wright-Patterson, OH 45433
513/255-2881

Charles A. Mills
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Asst. Sec. of Navy Shipbuilding & Logistics
Office of Contracts and Business Mgmt.
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2221 Jefferson Davis Hwy.
Arlington, VA 20360
202/692-8658

US Army Aviation Systems Command
Small Business Office (AMSAV-V)
4300 Goodfellow Blvd.
St. Louis, MO 63120-1798
Attn: Small Business Advisor
314/981-6107

Office of Assistant Secretary of Defense - PA
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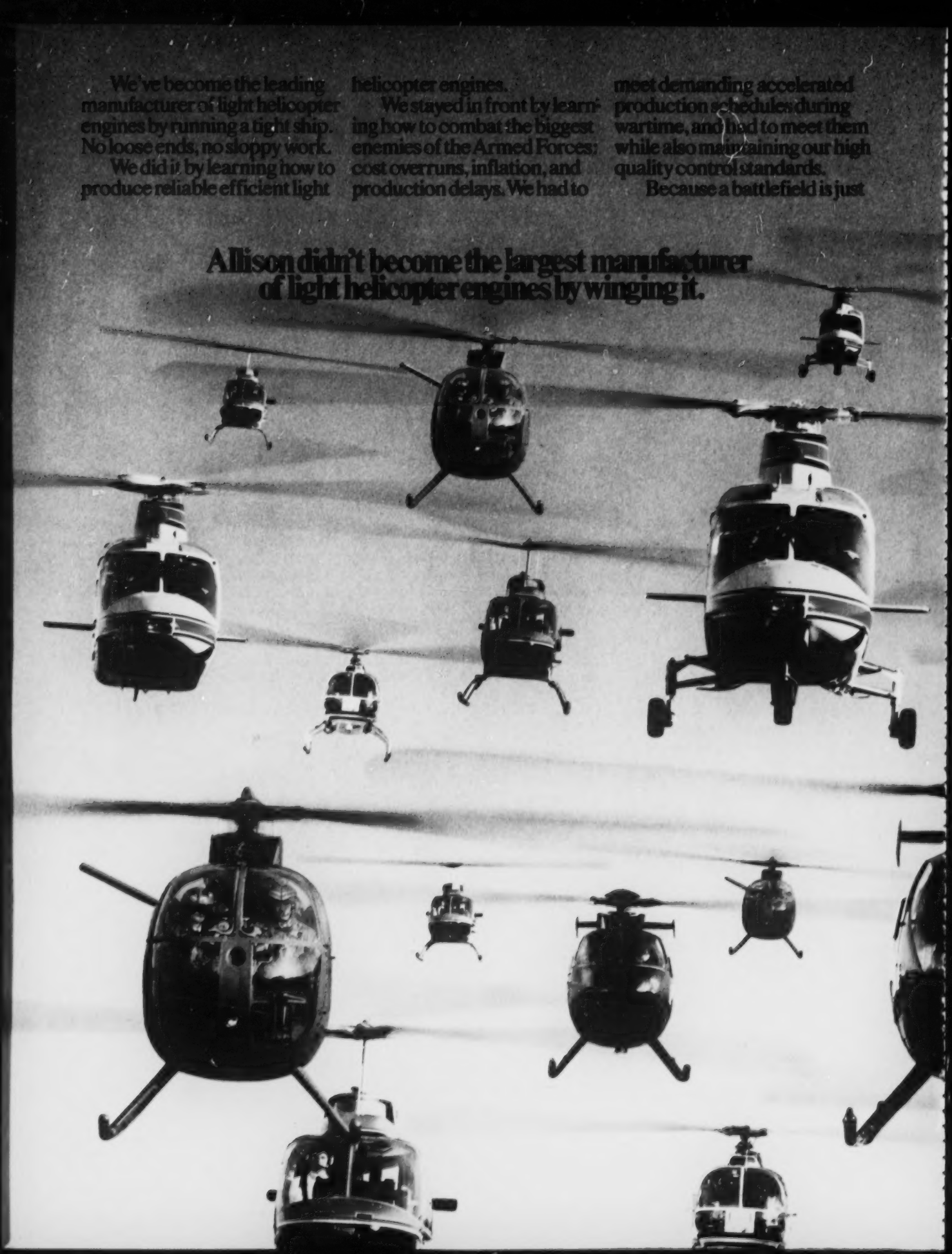

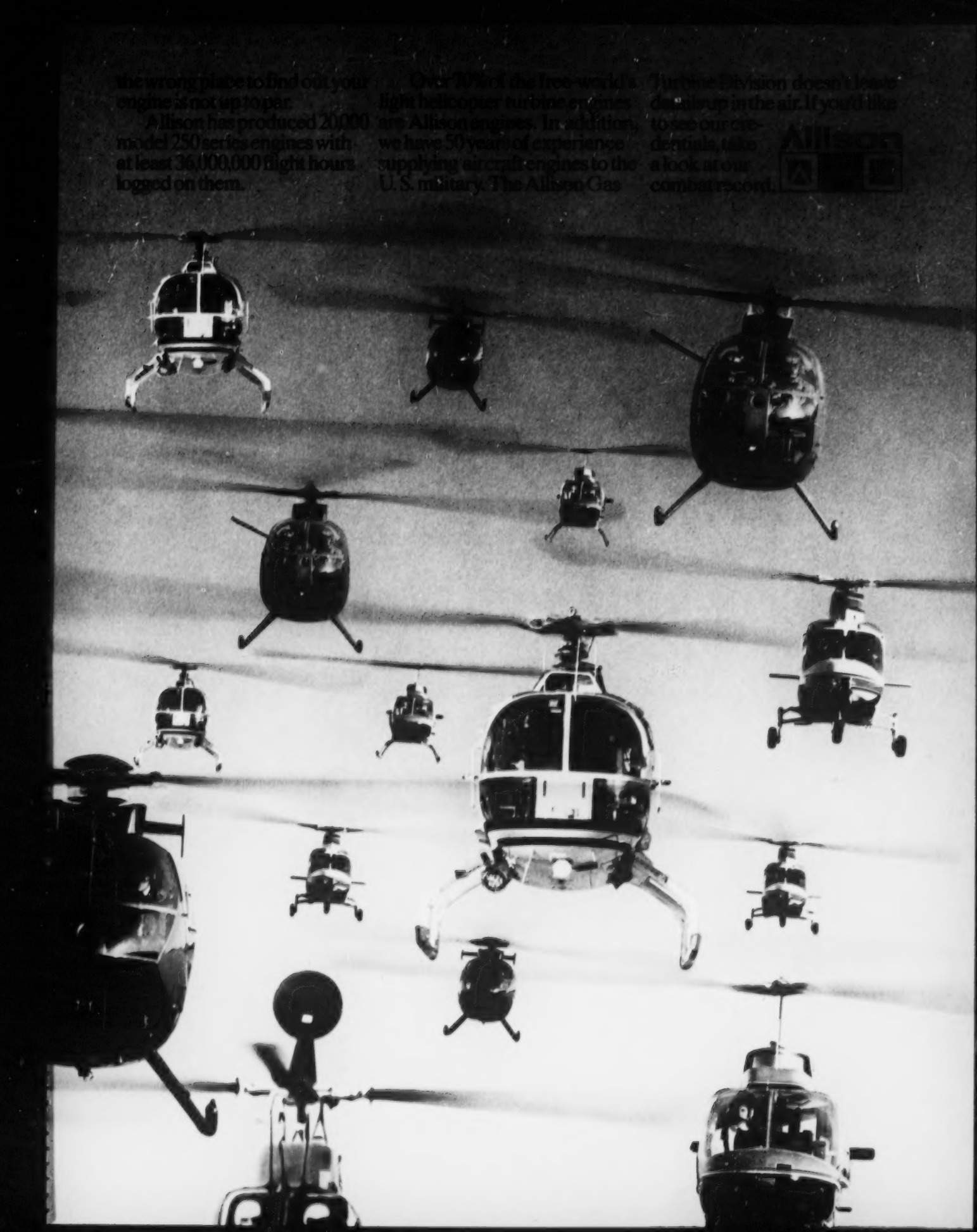
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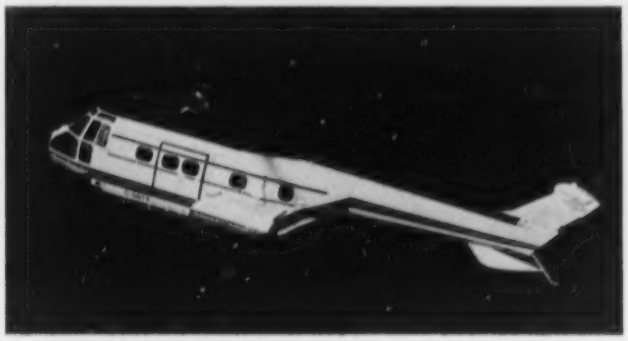
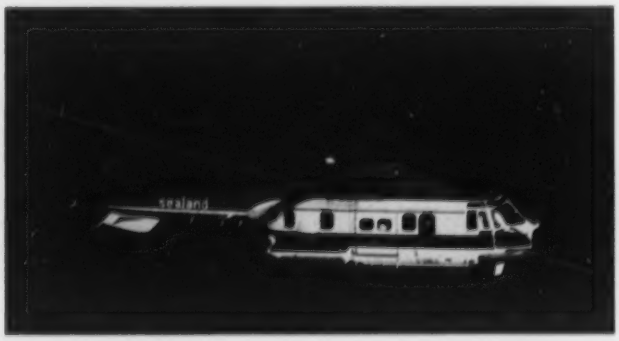
Manufacturer/Model Aerospatiale Lama
Total Production (all variants) 390 ***First flight*** 1969
Comments Specifications shown are for SA315B Lama. This aircraft holds absolute altitude record for helicopters of any category: 40,820 ft/12,442m by Jean Boulet in 1972.
Engine(s) Artouste III B1 ***HP (takeoff)*** 858 shp
Dimensions main rotor 36.2 ft/11 m ***Tail rotor*** 6.3 ft/1.9 m
Height 10.1 ft/3.1m ***Length*** 42.3 ft/12.9m ***Width*** 7.8 ft/2.4m
Empty weight 2,266 lbs/1,028 kg ***Gross weight*** 4,300 lbs/1,950 kg
Useful load 2,034 lbs/922 kg ***External*** 2,646 lbs/1,200 kg
Vne 113 kts/209 kmh ***Max cruise*** 103 kts/192 kmh
Max rate of climb 1,083 fpm/330 mpm
HIGE 16,565 ft/5,050m ***HOGE*** 15,100 ft/4,600m
Service ceiling 17,720 ft/5,400m ***S/E service ceiling*** N/A
Std fuel 152 gal/573 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 278 nm/515 km
Range with opt fuel N/A
VFR Crew 1 ***passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $560,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Super Frelon
Total production (all variants) 105 ***First flight*** 1962
Comments Specifications shown are for SA321JA Super Frelon.
Engine(s) (3) Turbomeca Turmo III C6 ***HP (takeoff)*** 1,515 shp ea.
Dimensions main rotor 62.0 ft/18.9m ***Tail rotor*** 13.1 ft/4.0m
Height 21.9 ft/6.7m ***Length*** N/A ***Width*** 16.1 ft/4.9m
Empty weight 15,245 lbs/6,915 kg ***Gross weight*** 28,660 lbs/13,000 kg
Useful load 13,415 lbs/6,085 kg ***External*** 11,000 lbs/5,000 kg
Vne 148 kts/275 kmh ***Max cruise*** 134 kts/248 kmh
Max rate of climb 1,300 fpm/396 mpm
HIGE 6,230 ft/1,900m ***HOGE*** limited to 27,515 lbs/2,480 kg at sea level
Service ceiling 10,000 ft/3,050m ***S/E service ceiling*** *3,940 ft/1,200m on 2 engines. *One engine out. Two engine service ceiling.
Std fuel 1,030 gal/3,900 lit ***Max fuel*** 1,822 gal/6,897 lit
Max range std fuel (no reserve) 432 nm/800 km @ 126 kts/232 kmh
Range with opt fuel 764 nm/1,416 km
VFR Crew 2 ***Passengers*** 27
Standard avionics SFIM autopilot.
1986 base price ($U.S.) Not established.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Puma
Total production (all variants) 700 ***First flight*** 1965
Comments Specifications shown are for SA330J Puma.
Engine(s) (2) Turbomeca Turmo IV C ***HP (takeoff)*** 1,494 shp ea.
Dimensions main rotor 49.5 ft/15.1m ***Tail rotor*** 10.0 ft/3.0m
Height 16.9 ft/5.1m ***Length*** 59.8 ft/18.2m ***Width*** 9.8 ft/3.0m
Empty weight 8,358 lbs/3,792 kg ***Gross weight*** 16,315 lbs/7,400 kg
Useful load 7,957 lbs/3,608 kg ***External*** 7,055 lbs/3,200 kg
Vne 142 kts/263 kmh ***Max cruise*** 139 kts/258 kmh
Max rate of climb 1,200 fpm/366 mpm
HIGE 7,545 ft/2,300m ***HOGE*** 5,580 ft/1,700m
Service ceiling 15,750 ft/4,800m ***S/E servcie ceiling*** 7,220 ft/2,200m
Std fuel 408 gal/1,544 lit ***Max fuel*** 1,098 gal/4,156 lit
Max range std fuel (no reserve) 297 nm/550 km @ 134 kts/248 kmh
Range with opt fuel 799 nm/1,481 km
VFR Crew 2 ***Passengers*** 18
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) Out of production.
For more information contact Ron LaFleur (214)641-0000



Manufacturer/Model Aerospatiale Super Puma
Total production (all variants) 160 & "C" & "L") ***First flight*** 1978
Comments Specifications shown are for AS332L Super Puma.
Engine(s) (2) Turbomeca Makila 1A ***HP (takeoff)*** 1,661 shp ea.
Dimensions main rotor 51.2 ft/15.6m ***Tail rotor*** 10.0 ft/3.1m
Height 16.1 ft/4.9m ***Length*** 61.4 ft/18.7m ***Width*** 11.1 ft/3.4m
Empty weight 9,560 lbs/4,335 kg ***Gross weight*** 18,960 lbs/8,600 kg
Useful load 9,400 lbs/4,265 kg ***External*** 9,920 lbs/4,500 kg
Vne 150 kts/278 kmh ***Max cruise*** 144 kts/266 kmh
Max rate of climb 1,595 fpm/486 mpm
HIGE 8,200 ft/2,500m ***HOGE*** 6,070 ft/1,850m
Service ceiling 130 ft/4,200m ***S/E service ceiling*** 5,250 ft/1,600m
Std fuel 544 gal/2,059 lit ***Max fuel*** 1,344 gal/5,088 lit
Max range std fuel (no reserve) 459 nm/850 km @ 138 kts/256 kmh
Range with opt fuel 1,207 nm/2,235 km
VFR Crew 2 ***Passengers*** 23
Standard avionics SFIM AP155P autopilot.
1986 base price ($U.S.) $4,610,600 ("L" Model)
For more information contact Ron LaFleur (214)641-0000



Manufacturer/Model Aerospatiale Super Puma
Total production (all variants) 160 ("C" & "L") ***First flight*** 1978
Comments Specifications shown are for AS332C Super Puma.
Engine(s) (2) Tubomeca Makila ***HP (takeoff)*** 1,661 shp ea.
Dimensions main rotor 51.2 ft/15.6m ***Tail rotor*** 10.0 ft/3.1m
Height 16.1 ft/4.9m ***Length*** 61.4 ft/3.1m ***Width*** 11.1 ft/3.4m
Empty weight 9,260 lbs/4,200 kg ***Gross weight*** 18,410 lbs/8,350 kg
Useful load 9,150 lbs/4,150 kg ***External*** 9,920 lbs/4,500 kg
Vne 160 kts/296 kmh ***Max cruise*** 151 kts/279 kmh
Max rate of climb 1,732 fpm/528 mpm
HIGE 8,856 ft/2,700m ***HOGE*** 6,888 ft/2,100m
Service ceiling 15,088 ft/4,600m ***S/E service ceiling*** 6,232 ft/1,900m
Std fuel 406 gal/1,537 lit ***Max fuel*** 1,206 gal/4,565 lit
Max range std fuel (no reserve) 343 nm/635 km @ 140 kts/259 kmh
Range with opt fuel 1,019 nm/1,888 km
VFR Crew 2 ***Passengers*** 18
Standard avionics SFIM AP155P autopilot.
1986 base price ($U.S.) Out of production.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Gazelle
Total production (all variants) 1141 ***First flight*** 1967
Comments Specifications shown are for SA342J Gazelle.
Engine(s) (1) Turbomeca Astazou XIV H ***HP (takeoff)*** 592 shp
Dimensions main rotor 34.5 ft/10.5m ***Tail rotor*** 2.3 ft/0.7m
Height 10.5 ft/3.2m ***Length*** 39.3 ft/12m ***Width*** 6.6 ft/2m
Empty weight 2,164 lbs/982 kg ***Gross weight*** 4,190 lbs/1,900 kg
Useful load 2,026 lbs/918 kg ***External*** 1,540 lbs/700 kg
Vne 167 kts/310 kmh ***Max cruise*** 142 kts/264 kmh
Max rate of climb 2,010 fpm/613 mpm
HIGE 11,970 ft/3,650m ***HOGE*** 9,430 ft/2,875m
Service ceiling 14,105 ft/4,300m ***S/E service ceiling*** N/A
Std fuel 144 gal/545 lit ***Max fuel*** 197 gal/745 lit
Max range std fuel (no reserve) 407 nm/754 km @ 128 kts/238 kmh
Range with opt fuel 557 nm/1,032 km
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) Not established.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil
Total production (all variants) 860 ("B" & "D") ***First flight*** 1976
Comments Specifications shown are for AS350B Ecureuil.
Engine(s) (1) Tubomeca Arriel 1B ***HP (takeoff)*** 641 shp
Dimensions main rotor 35.1 ft/10.7m ***Tail rotor*** 6.1 ft/1.9m
Height 10.3 ft/3.2m ***Length*** 42.6 ft/13m ***Width*** 8.3 ft/2.5m
Empty weight 2,428 lbs/1,101 kg ***Gross weight*** 4,300 lbs/1,950 kg
Useful load 1,872 lbs/849 kg ***External*** 2,000 lbs/907 kg
Vne 147 kts/272 kmh ***Max cruise*** 125 kts/232 kmh
Max rate of climb 1,555 fpm/474mpm
HIGE 9,675 ft/2,950m ***HOGE*** 7,380 ft/2,250m
Service ceiling 15,600 ft/4,750m ***S/E service ceiling*** N/A
Std fuel 137 gal/520 lit ***Max fuel*** 263 gal/995 lit
Max range std fuel (no reserve) 378 nm/700 km @ 121 kts/224 kmh
Range with opt fuel 726 nm/1,345 km
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $480,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil 2/TwinStar
Total production (all variants) 310 (E, F, F1 & F2) ***First flight*** 1979
Comments Specifications shown are for AS355F-1 Ecureuil 2/TwinStar.
Engine(s) (2) G.M. Allison 250-C20F ***HP (takeoff)*** 420 shp ea.
Dimensions main rotor 35.1 ft/10.7m ***Tail rotor*** 6.1 ft/1.9m
Height 10.2 ft/3.1m ***Length*** 42.6 ft/13m ***Width*** 8.3 ft/2.5m
Empty weight 2,900 lbs/1,315 kg ***Gross weight*** 5,291 lbs/2,400 kg
Useful load 2,391 lbs/1,085 kg ***External*** 2,300 lbs/1,043 kg
Vne 150 kts/278 kmh ***Max cruise*** 124 kts/230 kmh
Max rate of climb 1,496 fpm/456 mpm
HIGE 7,880 ft/2,400m ***HOGE*** 6,400 ft/1,950m
Service ceiling 13,120 ft/4,000m ***S/E service ceiling*** 2,790 ft/850m
Std fuel 193 gal/730 lit ***Max fuel*** 319 gal/1,205 lit
Max range std fuel (no reserve) 391 nm/725 km @ 113 kts/210 kmh
Range with opt fuel 646 nm/1,198 km
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $800,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale AStar Mark III
Total production (all variants) 860 ("B" & "D") ***First flight*** 1976
Comments Specifications shown are for AS350D AStar Mark III.
Engine(s) (1) Avco Lycoming LTS 101-600A3 ***HP (takeoff)*** 615 shp
Dimensions main rotor 35.1 ft/10.7m ***Tail rotor*** 6.1 ft/1.9m
Height 10.3 ft/3.2m ***Length*** 42.6 ft/13m ***Width*** 8.3 ft/2.5m
Empty weight 2,432 lbs/1,103 kg ***Gross weight*** 4,300 lbs/1,950 kg
Useful load 1,868 lbs/847 kg ***External*** 2,000 lbs/907 kg
Vne 147 kts/272 kmh ***Max cruise*** 125 kts/232 kmh
Max rate of climb 1,713 fpm/522 mpm
HIGE 8,858 ft/2,700m ***HOGE*** 5,577 ft/1,700m
Service ceiling 14,900 ft/4,540m ***S/E service ceiling*** N/A
Std fuel 137 gal/520 lit ***Max fuel*** 263 gal/995 lit
Max range std fuel (no reserve) 405 nm/750 km @ 108 kts/200 kmh
Range with opt fuel 777 nm/1,441 km
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $480,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Dauphin
Total production (all variants) 36 ***First flight*** 1972
Comments Specifications shown are for SA360C Dauphin.
Engine(s) (1) Turbomeca Astazou XVIII A ***HP (takeoff)*** 872 shp
Dimensions main rotor 37.7 ft/11.5m ***Tail rotor*** 3.0 ft/0.9m
Height 11.5 ft/3.5m ***Length*** 43.3 ft/13.2m ***Width*** 7.4 ft/2.2m
Empty weight 3,797 lbs/1,722 kg ***Gross weight*** 6,615 lbs/3,000 kg
Useful load 2,818 lbs/1,278 kg ***External*** 2,866 lbs/1,300 kg
Vne 170 kts/315 kmh ***Max cruise*** 146 kts/270 kmh
Max rate of climb 1,400 fpm/427 mpm
HIGE 8,035 ft/2,450m ***HOGE*** 5,740 ft/1,750m
Service ceiling 14,270 ft/4,350m ***S/E service ceiling*** N/A
Std fuel 169 gal/640 lit ***Max fuel*** 351 gal/1,330 lit
Max range std fuel (no reserve) 353 nm/655 km @ 133 kts/247 kmh
Range with opt fuel 733 nm/1,359 km
VFR Crew 1 ***Passengers*** 13
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) Out of production.
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Dauphin 2
Total production (all variants) N/A ***First flight*** 1985
Comments Specifications shown are for SA 365N1.
Engine(s) (2) Turbomeca Arriel 1C1 ***HP (takeoff)*** 705 shp ea.
Dimensions main rotor 39.17 ft/11.94m ***Tail rotor*** 3.60 ft/1.10m
Height 13.02 ft/3.97m ***Length*** 44.88 ft/13.68m ***Width*** 10.53 ft/3.21m
Empty weight 4,765 lbs/2,161 kg ***Gross weight*** 9,040 lbs/4,100 kg
Useful load 4,275 lbs/1,939 kg ***External*** 3,727 lbs/1,600 kg
Vne 160 kts/296 kmh ***Max cruise*** 153 kts/283 kmh
Max rate of climb 1,300 fpm/390 mpm
HIGE 6,890 ft/2,100m ***HOGE*** 3,610 ft/1,100m
Service ceiling 11,810 ft/3,600m ***S/E service ceiling*** 4,100 ft/1,250m
Std fuel 300 gal/1,135 lit ***Max fuel*** 472 gal/1,790 lit
Max range std fuel (no reserve) 460 nm/855 km @ 140 kts/260 kmh
Range with opt fuel 725 nm/1,344 km
VFR Crew 1 ***Passengers*** 13
Standard avionics None.
1986 base price ($U.S.) $2,805,000
For more information contact Ron LaFleur (214)641-0000

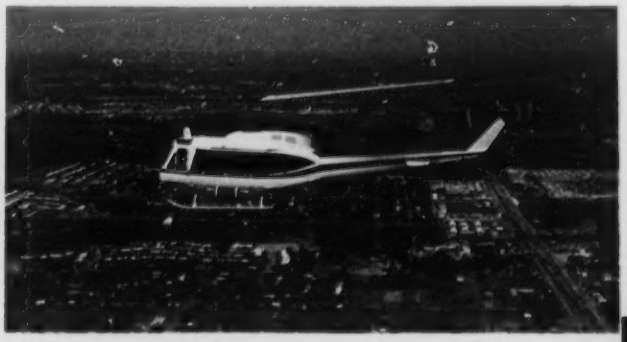
Manufacturer/Model Aerospatiale Ecureuil
Total production (all variants) 860 ("B" & "D") ***First flight*** N/A
Comments Specifications shown are for AS350B1 Ecureuil.
Engine(s) (1) Tubomeca Arriel 1D ***HP (takeoff)*** 684 shp
Dimensions main rotor 35.1 ft/10.7m ***Tail rotor*** 6.10 ft/1.86m
Height 10.3 ft/3.14m ***Length*** 42.45 ft/12.94m ***Width*** 8.30 ft/2.53m
Empty weight 2,447 lbs/1,110 kg ***Gross weight*** 4,850 lbs/2,200 kg
Useful load 2,403 lbs/1,090 kg ***External*** N/A
Vne 147 kts/276 kmh ***Max cruise*** 123 kts/277 kmh
Max rate of climb N/A
HIGE 9,515 ft/2,900m ***HOGE*** 6,561 ft/2,000m
Service ceiling 16,000 ft/5,000m ***S/E service ceiling*** N/A
Std fuel 140 gal/530 lit ***Max fuel*** N/A
Max range std fuel (no reserve) N/A
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 5/6
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $540,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Super Puma
Total production (all variants) 160 ***First flight*** 1984
Comments Specifications shown are for AS332L 1 Super Puma.
Engine(s) (2) Tubomeca Makila 1A1 ***HP (takeoff)*** 1,819 shp ea.
Dimensions main rotor 51.18 ft/15.6m ***Tail rotor*** 10.0 ft/3.05m
Height 16.14 ft/4.92m ***Length*** 61.35 ft/18.7m ***Width*** 11.08 ft/3.38m
Empty weight 9,745 lbs/4,420 kg ***Gross weight*** 18,960 lbs/8,600 kg
Useful load 9,215 lbs/4,180 kg ***External*** 9,920 lbs/4,500 kg
Vne 150 kts/278 kmh ***Max cruise*** 144 kts/266 kmh
Max rate of climb 1,595 fpm/486 mpm
HIGE 10,168 ft/3,100m ***HOGE*** 7,544 ft/2,300m
Service ceiling 15,088 ft/4,600m ***S/E service ceiling*** 6,888 ft/2,100m
Std fuel 544 gal/2,059 lit ***Max fuel*** 1,344 gal/5,088 lit
Max range std fuel (no reserve) 470 nm/870 km @ 138 kts/256 kmh
Range with opt fuel 817 nm/1,514 km
VFR Crew 2 ***Passengers*** 25
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $4,750,000
For more information contact Ron LaFleur (214)641-0000

Manufacturer/Model Aerospatiale Ecureuil 2
Total production (all variants) 310 (E,F,F1,F2) ***First flight*** N/A
Comments Specifications shown are for AS355F2 Ecureuil 2.
Engine(s) (2) Allison 250 C 20F ***HP (takeoff)*** 420 shp ea.
Dimensions main rotor 35.1 ft/10.7m ***Tail rotor*** 6.10 ft/1.86m
Height 10.3 ft/3.14m ***Length*** 42.45 ft/12.94m ***Width*** 8.3 ft/2.53m
Empty weight 2,732 lbs/1,305 kg ***Gross weight*** 5,600 lbs/2,540 kg
Useful load 2,877 lbs/1,235 kg ***External*** 2,500 lbs/1,134 kg
Vne 150 kts/278 kmh ***Max cruise*** 124 kts/225 kmh
Max rate of climb 1,338 fpm/408 mpm
HIGE 6,560 ft/2,000m ***HOGE*** 4,920 ft/1,500m
Service ceiling 11,808 ft/3,600m ***S/E service ceiling*** N/A
Std fuel 193 gal/730 lit ***Max fuel*** 318 gal/1,205 lit
Max range std fuel (no reserve) 386 nm/716 km @ 110 kts/203 kmh
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 5/6
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $875,000
For more information contact Ron LaFleur (214)641-0000

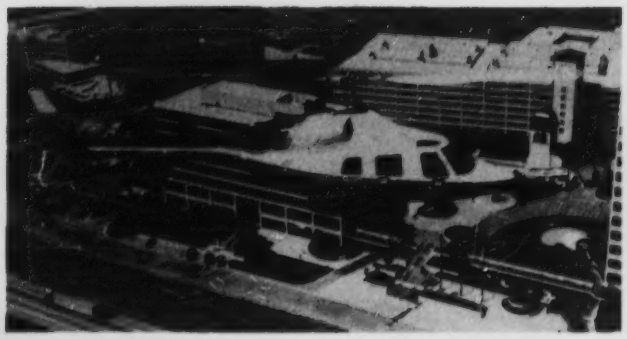
Manufacturer/Model Agusta A 109 MK 11 Widebody
Total production (all variants) 260+ ***First flight*** 1971
Comments None.
Engine(s) (2) Detroit Allison 250 C20B ***HP (takeoff)*** 740 shp
Dimensions main rotor 36.1 ft/11m ***Tail rotor*** 6.66 ft/2.03m
Height 10.8 ft/3.29m ***Length*** 35.1 ft/10.69m ***Width*** 9.45 ft/2.88m
Empty weight 3,258 lbs/1,699 kg ***Gross weight*** 5,730 lbs/2,599 kg
Useful load 2,472 lbs/1,120 kg ***External*** 2,000 lbs/907 kg
Vne 168 kts/311 kmh ***Max cruise*** 150 kts/278 kmh
Max rate of climb 1,650 fpm/503 mpm
HIGE 7,900 ft/2,408m ***HOGE*** 4,900 ft/1,494m
Service ceiling 15,000 ft/4,572m ***S/E service ceiling*** 5,500 ft/1,676m
Std fuel 146 gal/533 lit ***Max fuel*** 186 gal/704 lit
Max range std fuel (no reserve) 365 nm/676 km
Range with opt fuel 465 nm/861 km
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Marketing Department (215)245-8860

Manufacturer/Model Agusta A109 MK 11 SP
Total production (all variants) 90 ***First flight*** 1971
Comments Special purpose aircraft for law enforcement agencies.
Engine(s) (2) Detroit Allison 250 C20B ***HP (takeoff)*** 740 shp
Dimensions main rotor 36.1 ft/11m ***Tail rotor*** 6.66 ft/2.03m
Height 10.8 ft/3.29m ***Length*** 35.1 ft/10.69m ***Width*** 9.45 ft/2.88m
Empty weight 3,258 lbs/1,699 kg ***Gross weight*** 5,730 lbs/2,599 kg
Useful load 2,472 lbs/1,120 kg ***External*** 2,000 lbs/907 kg
Vne 168 kts/311 kmh ***Max cruise*** 150 kts/278 kmh
Max rate of climb 1,650 fpm/503 mpm
HIGE 7,900 ft/2,408m ***HOGE*** 4,900 ft/1,494m
Service ceiling 15,000 ft/4,572m ***S/E service ceiling*** 5,500 ft/1,676m
Std fuel 146 gal/533 lit ***Max fuel*** 186 gal/704 lit
Max range std fuel (no reserve) 365 nm/676 km
Range with opt fuel 465 nm/861 km
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Marketing Department (215)245-8860



Manufacturer/Model Bell Helicopter Textron 205A-1
Total production (all variants) 350+ ***First flight*** 1967
Comments Currently not in production. External load gross weight = 10,500 lbs (4,762 kg).
Engine(s) (1) Lycoming T5313 B ***HP (takeoff)*** 1,400 shp
Dimensions main rotor 48 ft/14.6m ***Tail rotor*** 8.5 ft/2.59m
Height 14.4 ft/4.38m ***Length*** 57.08 ft/17.4m ***Width*** 9.3 ft/2.83m
Empty weight 5,323 lbs/2,414 kg ***Gross weight*** 9,500 lbs/4,309 kg
Useful load 4,177 lbs/1,894 kg ***External*** 5,000 lbs/2,268 kg
Vne 110 kts/204 kmh ***Max cruise*** 110 kts/204 kmh
Max rate of climb 1,700 fpm/518 mpm
HIGE 10,400 ft/3,170m ***HOGE*** 6,000 ft/1,827m
Service ceiling 12,400 ft/2,776m ***S/E service ceiling*** N/A
Std fuel 215 gal/814 lit ***Max fuel*** 395 gal/1,495 lit
Max range std fuel (no reserve) 313 nm/580 km @ 5,000 ft (1,523m)
Range with opt fuel 592 nm/1,095 km @ 5,000 ft (1,523m)
VFR Crew 1 ***Passengers*** 14
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron 222
Total production (all variants) 150+ ***First flight*** 1976
Comments No longer in production. Nine passenger configuration available. Power-limited HIGE-8,000 ft (2,436m) external load gross weight is 8,100 lbs (3,673 kg). Single, dual pilot IFR options available.
Engine(s) (2) Lycoming LTS101-650C-3 ***HP (takeoff)*** 620 shp ea.
Dimensions main rotor 39.75 ft/12.1m ***Tail rotor*** 6.5 ft/1.98m
Height 11.25 ft/3.4m ***Length*** 47.5 ft/14.5m ***Width*** 11.3 ft/3.44m
Empty weight 4,889 lbs/2,217 kg ***Gross weight*** 7,850 lbs/3,560 kg
Useful load 2,961 lbs/1,343 kg ***External*** 2,500 lbs/761 kg
Vne 150 kts/278 kmh ***Max cruise*** 148 kts/274 kmh
Max rate of climb 1,580 fpm/481 mpm
HIGE 4,200 ft/1,279m ***HOGE*** 4,600 ft/1,401m
Service ceiling 12,800 ft/3,898m ***S/E service ceiling*** 5,200 ft/1,583m
Std fuel 187.5 gal/710 lit ***Max fuel*** 300.5 gal/1,137 lit
Max range std fuel (no reserve) 350 nm/648 km @ 4,000 ft (1,218m)
Range with opt fuel 586 nm/1,086 km @ 4,000 ft (1,218m)
VFR Crew 1 ***Passengers*** 7
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-8200



Manufacturer/Model Bell Helicopter Textron 222B
Total production (all variants) 150+ ***First flight*** 1982
Comments Nine passenger configuration available. Power-limited HIGE = 10,400 ft (3,167m). Wheel gear, external load gross weight is 8,400 lbs (3,810 kg). Single-pilot IFR certification w/out augmentation.
Engine(s) (2) Lycoming LTS101-750C-1 ***HP (takeoff)*** 684 shp ea.
Dimensions main rotor 42 ft/12.8m ***Tail rotor*** 6.88 ft/2.1m
Height 11.25 ft/3.43m ***Length*** 50 ft/15.2m ***Width*** 10.25 ft/3.12m
Empty weight 4,900 lbs/2,222 kg ***Gross weight*** 8,250 lbs/3,742 kg
Useful load 3,350 lbs/1,519 kg ***External*** 2,800 lbs/1,270 kg
Vne 150 kts/278 kmh ***Max cruise*** 149 kts/276 kmh
Max rate of climb 1,460 fpm/445 mpm
HIGE 7,100 ft/2,162m ***HOGE*** 6,400 ft/1,951m
Service ceiling 15,800 ft/4,811m ***S/E service ceiling*** 7,500 ft/2,284m
Std fuel 187.5 gal/710 lit ***Max fuel*** 300.5 gal/1,175 lit
Max range std fuel (no reserve) 324 nm/600 km @ 4,000 ft (1,218m)
Range with opt fuel 532 nm/985 km @ 4,000 ft (1,218m)
VFR Crew 1 ***Passengers*** 9
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron JetRanger-III 206B-III
Total production (all variants) 4,000+ ***First flight*** 1977
Comments Vne is 130 kts @ 3,000 lbs and below. External load gross weight is 3,350 lbs.
Engine(s) (1) Allison 250-C20J ***HP (takeoff)*** 420 shp
Dimensions main rotor 33.33 ft/10.16m ***Tail rotor*** 5.42 ft/1.65m
Height 9.54 ft/2.91m ***Length*** 38.79 ft/11.82m ***Width*** 6.4 ft/1.95m
Empty weight 1,635 lbs/742 kg ***Gross weight*** 3,200 lbs/1,451 kg
Useful load 1,565 lbs/710 kg ***External*** 1,500 lbs/680 kg
Vne 122 kts/226 kmh ***Max cruise*** 118 kts/218 kmh
Max rate of climb 1,280 fpm/390 mpm
HIGE 12,800 ft/3,900m ***HOGE*** 8,800 ft/2,680m
Service ceiling 13,500 ft/4,115m ***S/E service ceiling*** N/A
Std fuel 91 gal/344 lit ***Max fuel*** 91 gal/344 lit
Max range std fuel (no reserve) 398 nm/747 km @ 5,000 ft (1,523m)
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron LongRanger II 206L-1
Total production (all variants) 700+ ***First flight*** 1977
Comments No longer in production. External load gross weight is 4,250 lbs (1,927 kg). Single-pilot IFR option available.
Engine(s) (1) Allison 250-C28B ***HP (takeoff)*** 500 shp
Dimensions main rotor 37 ft/11.3m ***Tail rotor*** 5.42 ft/1.65m
Height 10.3 ft/3.1m ***Length*** 42.7 ft/13.0m ***Width*** 7.7 ft/2.34m
Empty weight 2,200 lbs/998 kg ***Gross weight*** 4,150 lbs/1,882 kg
Useful load 1,950 lbs/884 kg ***External*** 2,000 lbs/907 kg
Vne 130 kts/241 kmh ***Max cruise*** 117 kts/215 kmh
Max rate of climb 1,340 fpm/408 mpm
HIGE 12,300 ft/3,745m ***HOGE*** 5,300 ft/1,614m
Service ceiling 19,000 ft/5,786m ***S/E service ceiling*** N/A
Std fuel 98 gal/371 lit ***Max fuel*** 98 gal/371 lit
Max range std fuel (no reserve) 333 nm/616 km @ 5,000 ft (1,523m)
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron 222UT
Total production (all variants) 150+ ***First flight*** 1983
Comments Ten-place configuration available. Power-limited HIGE = 10,400 ft (3,167m). Skid gear. External load gross weight is 8,400 lbs (3,810 kg). Single-pilot IFR certification without augmentation.
Engine(s) (2) Lycoming LTS 101-750C-1 ***HP (takeoff)*** 684 shp ea.
Dimensions main rotor 42 ft/12.80m ***Tail rotor*** 6.88 ft/2.1m
Height 10.42 ft/3.06m ***Length*** 50 ft/15.2m ***Width*** 10.25 ft/3.12m
Empty weight 4,874 lbs/2,210 kg ***Gross weight*** 8,250 lbs/3,742 kg
Useful load 3,376 lbs/1,531 kg ***External*** 2,800 lbs/1,270 kg
Vne 150 kts/278 kmh ***Max cruise*** 143 kts/265 kmh
Max rate of climb 1,460 fpm/445 mpm
HIGE 7,100 ft/2,164m ***HOGE*** 6,400 ft/1,951m
Service ceiling 15,800 ft/4,811m ***S/E service ceiling*** 7,500 ft/2,284m
Std fuel 246 gal/931 lit ***Max fuel*** 359 gal/1,359 lit
Max range std fuel (no reserve) 412 nm/763 km @ 4,000 ft (1,218m)
Range with opt fuel 609 nm/1,128 km @ 4,000 ft (1,218m)
VFR Crew 1 ***Passengers*** 8
Standard avionics One VHF comm plus ICS pannel.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron 412
Total production (all variants) 120+ ***First flight*** 1979
Comments AFCS standard/two-pilot and single-pilot IFR option available. Four seating types available.
Engine(s) (2) P&W PT6T-3B ***HP (takeoff)*** 900 shp
Dimensions main rotor 46 ft/14.02m ***Tail rotor*** 8.5 ft/2.59m
Height 15.1 ft/4.6m ***Length*** 56 ft/17.05m ***Width*** 9.3 ft/2.83m
Empty weight 6,470 lbs/2,934 kg ***Gross weight*** 11,900 lbs/5,397 kg
Useful load 5,430 lbs/2,463 kg ***External*** 11,900 lbs/5,397 kg
Vne 140 kts/259 kmh ***Max cruise*** 124 kts/230 kmh
Max rate of climb 1,440 fpm/438 mpm
HIGE 1,400 ft/427m ***HOGE*** N/A
Service ceiling 17,000 ft/5,177m ***S/E service ceiling*** 7,600 ft/2,314m
Std fuel 330 gal/1,250 lit ***Max fuel*** 494 gal/1,870 lit
Max range std fuel (no reserve) 402 nm/744 km @ 5,000 ft (1,528m)
Range with opt fuel 600 nm/1,111 km @ 5,000 ft (1,528m)
VFR Crew 1 ***Passengers*** 14
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) Quoted on request.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron 212
Total production (all variants) 750+ ***First flight*** 1970
Comments Vne increases up to 130 kts (241 kmh) as gross weight decreases. Optional IFR available.
Engine(s) (2) P&W PT6T-3B ***HP (takeoff)*** 900 shp ea.
Dimensions main rotor 48 ft/14.6m ***Tail rotor*** 8.5 ft/2.59m
Height 14.85 ft/4.53m ***Length*** 57.25 ft/17.5m ***Width*** 9.25 ft/2.8m
Empty weight 5,972 lbs/2,708 kg ***Gross weight*** 11,200 lbs/5,080 kg
Useful load 5,228 lbs/2,371 kg ***External*** 5,000 lbs/2,268 kg
Vne 100 kts/185 kmh ***Max cruise*** 109 kts/202 kmh
Max rate of climb 1,320 fpm/404 mpm
HIGE 11,000 ft/3,350m ***HOGE*** N/A
Service ceiling 14,200 ft/4,324m ***S/E service ceiling*** 5,000 ft/1,523m
Std fuel 215 gal/814 lit ***Max fuel*** 395 gal/1,506 lit
Max range std fuel (no reserve) 231 nm/443 km @ 4,000 ft (1,218m)
Range with opt fuel 428 nm/787 km @ 4,000 ft (1,218m)
VFR Crew 1 ***Passengers*** 14
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) Quoted on request.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron LongRanger-III 206L-3
Total production (all variants) 700+ ***First flight*** 1981
Comments External load gross weight is 4,250 lbs. Single-pilot IFR option available. 456 shp trans. rating optionally available.
Engine(s) (1) Allison 250-C30P ***HP (takeoff)*** 650 shp
Dimensions main rotor 37 ft/11.3m ***Tail rotor*** 5.42 ft/1.65m
Height 10.25 ft/3.1m ***Length*** 42.7 ft/10.3m ***Width*** 7.7 ft/2.34m
Empty weight 2,200 lbs/998 kg ***Gross weight*** 4,150 lbs/1,882 kg
Useful load 1,950 lbs/884 kg ***External*** 2,000 lbs/907 kg
Vne 130 kts/241 kmh ***Max cruise*** 116 kts/215 kmh
Max rate of climb 1,340 fpm/408 mpm
HIGE 16,500 ft/5,024m ***HOGE*** 5,400 ft/1,644m
Service ceiling 20,000 ft/6,090m ***S/E service ceiling*** N/A
Std fuel 110 gal/416 lit ***Max fuel*** 110 gal/416 lit
Max range std fuel (no reserve) 354 nm/655 km @ 5,000 ft (1,523m)
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 6
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Not available at this time.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron 214B/214B-1
Total production (all variants) 400+ ***First flight*** 1975
Comments No longer in production. External load gross weight = 16,000
lbs. 214B-1 is same helicopter with maximum internal gross weight of 12,500 lbs (5,669 kg).
Engine(s) (1) Lycoming T5508D ***HP (takeoff)*** 2,930 shp
Dimensions main rotor 50 ft/15.2m ***Tail rotor*** 9.58 ft/3.0m
Height 13.42 ft/4.1m ***Length*** 60.42 ft/18.4m ***Width*** 9.33 ft/2.9m
Empty weight 7,655 lbs/3,472 kg ***Gross weight*** 13,800 lbs/6,620 kg
Useful load 6,145 lbs/2,787 kg ***External*** 8,000 lbs/3,628 kg
Vne 140 kts/259 kmh ***Max cruise*** 140 kts/259 kmh
Max rate of climb 1,910 fpm/582 mpm
HIGE 15,000 ft/4,572m ***HOGE*** 10,500 ft/3,200m
Service ceiling 16,000 ft/4,875m ***S/E service ceiling*** N/A
Std fuel 204 gal/772 lit ***Max fuel*** 379 gal/1,434 lit
Max range std fuel (no reserve) 196 nm/363 km @ 5,000 ft (1,523m)
Range with opt fuel 368 nm/682 km @ 5,000 ft (1,523m)
VFR Crew 1 ***Passengers*** 15
Standard avionics One VHF comm, ICS panel.
1987 base price ($U.S.) N/A
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Bell Helicopter Textron 214ST
Total production (all variants) 50+ ***First flight*** 1977
Comments Vne at reduced gross weight is up to 160 kts. Standard configuration is IFR-certificated. Air data system, automated power assurance, in-flight blade-tracking.
Engine(s) (2) G.E. CT7-2A ***HP (takeoff)*** 1,625 shp ea.
Dimensions main rotor 52 ft/15.85m ***Tail rotor*** 9.67 ft/2.94m
Height 15.4 ft/4.7m ***Length*** 62.19 ft/18.95m ***Width*** 9.5 ft/2.89m
Empty weight 9,500 lbs/4,308 kg ***Gross weight*** 17,500 lbs/7,937 kg
Useful load 8,000 lbs/3,628 kg ***External*** 8,000 lbs/3,628 kg
Vne 130 kts/241 kmh ***Max cruise*** 143 kts/265 kmh
Max rate of climb 1,850 fpm/563 mpm
HIGE 6,400 ft/1,949m ***HOGE*** 1,000 ft/305m
Service ceiling 10,000 ft/3,045m ***S/E service ceiling*** 4,800 ft/1,462m
Std fuel 435 gal/1,646 lit ***Max fuel*** 609 gal/2,305 lit
Max range std fuel (no reserve) 457 nm/847 km @ 4,000 ft (1,218m)
Range with opt fuel 657 nm/1,216 km @ 4,000 ft (1,218m)
VFR Crew 2 ***Passengers*** 18
Standard avionics Dual VHF comm, dual VHF NAV, RNAV, DME, transponder, ADF dual ICS panels, AFCS.
1987 base price ($U.S.) Quoted on request.
For more information contact Jim Hamilton (817)280-8200

Manufacturer/Model Boeing Model 234 Long Range (LR)
Total production (all variants) 8 ***First flight*** 1980
Comments Airline style passenger interior includes: restroom, entertainment system, overhead bins, light refreshment galley, standup head room, gross weight is with internal load.
Engine(s) (2) Lycoming AL5512 ***HP (takeoff)*** 4,075 shp
Dimensions main rotor 60 ft/18.3m ***Tail rotor*** N/A
Height 18.6 ft/5.7m ***Length*** 99 ft/30.2m ***Width*** 15.8 ft/4.8m
Empty weight 25,900 lbs/11,748 kg ***Gross weight*** 48,500 lbs/22,000 kg
Useful load 22,600 lbs/10,251 kg ***External*** 28,000 lbs/12,700 kg
Vne 150 kts/278 kmh ***Max cruise*** 145 kts/269 kmh
Max rate of climb 1,180 fpm/360 mpm
HIGE 8,500 ft/2,590m ***HOGE*** 2,700 ft/823m @ 48,500 lbs
Service ceiling 8,500 ft/2,590m ***S/E service ceiling*** 1,500 ft/457m @ 8,500 lbs.
Std fuel 2,100 gal/7,948 lit ***Max fuel*** See 234 ER
Max range std fuel (no reserve) 720 nm/1,334 km
Range with opt fuel See 234 ER
VFR Crew 3 ***Passengers*** 44
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept (215)522-3357

Manufacturer/Model Boeing Model 234 Utility (UT)
Total production (all variants) 0 ***First flight*** 1981
Comments Utility version optimized for external load work. Can also carry cargo/passengers internally. Gross weight is with external load.
Engine(s) (2)Lycoming AL5512 ***HP (takeoff)*** 4,075 shp
Dimensions main rotor 60 ft/8.3m ***Tail rotor*** N/A
Height 18.6 ft/5.7m ***Length*** 99 ft/30.2m ***Width*** 15.7 ft/4.8m
Empty weight 21,600 lbs/9,798 kg ***Gross weight*** 51,000 lbs/32,134 kg
Useful load 29,400 lbs/13,336 kg ***External*** 28,000 lbs/12,700 kg
Vne 140 kts/259 kmh ***Max cruise*** 140 kts/259 kmh
Max rate of climb 900 fpm/274 mpm
HIGE 8,500 ft/2,590m ***HOGE*** 2,900 ft/884m @ 51,000 lbs
Service ceiling 6,800 ft/2,073m ***S/E service ceiling*** N/A
Std fuel 978 gal/3,702 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 330 nm/611 km
Range with opt fuel N/A
VFR Crew 2 ***Passengers*** N/A
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept. (215)522-3357

Manufacturer/Model Boeing Model 234 ER (Extended Range)
Total production (all variants) 2 ***First flight*** 1983
Comments Two additional cabin fuel tanks increases fuel capacity to 3,078 gal. One tank with 32 seats or two tanks with 17 seats. Retains LR.
Engine(s) (2) Lycoming AL5512 ***HP (takeoff)*** 4,075 shp
Dimensions main rotor 60 ft/18.3m ***Tail rotor*** N/A
Height 18.6 ft/5.7m ***Length*** 99 ft/30.2m ***Width*** 15.7 ft/4.8m
Empty weight 26,500 lbs/12,020 kg ***Gross weight*** 48,500 lbs/22,000 kg
Useful load 22,000 lbs/9,979 kg ***External*** 28,000 lbs/12,700 kg
Vne 150 kts/278 kmh ***Max cruise*** 145 kts/269 kmh
Max rate of climb 1,180 fpm/360 mpm
HIGE 8,500 ft/2,590m ***HOGE*** 2,700 ft/823m @ 48,500 lbs
Service ceiling 8,500 ft/2,590m ***S/E service ceiling*** 1,500 ft/457m @ 48,500 lbs
Std fuel 3,078 gal/11,650 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 1,136 nm/2,105 km
Range with opt fuel N/A
VFR Crew 2/3 ***Passengers*** 17 with 2 interior fuel tanks, 32 with 1 interior fuel tank.
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept (215)522-3357

Manufacturer/Model Boeing Model 234 Multipurpose Long Range (MLR)
Total production (all variants) 3 ***First flight*** 1985
Comments Multipurpose LR is designed for internal/external loads with minimal passenger amenities for 44 passengers.
Engine(s) (2) Lycoming AL5512 ***HP (takeoff)*** 4,075 shp
Dimensions main rotor 60 ft/18.3m ***Tail rotor*** N/A
Height 18.6 ft/5.7m ***Length*** 99 ft/30.2m ***Width*** 15.7 ft/4.8m
Empty weight 24,500 lbs/11,100 kg ***Gross weight*** 48,500 lbs/22,000 kg
Useful load 24,000 lbs/10,886 kg ***External*** 28,000 lbs/12,700 kg
Vne 150 kts/278 kmh ***Max cruise*** 145 kts/269 kmh
Max rate of climb 1,180 fpm/360 mpm
HIGE 8,500 ft/2,590m ***HOGE*** 2,700 ft/823m @ 48,500 lbs
Service ceiling 8,500 ft/2,590m ***S/E service ceiling*** 1,500 ft/457m @ 48,500 lbs
Std fuel 2,100 gal/7,948 lit ***Max fuel*** See 234 ER
Max range std fuel (no reserve) 720 nm/1,334 km
Range with opt fuel See 234 ER
VFR Crew 2 ***Passengers*** 44
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Marketing Dept. (215)522-3357

Manufacturer/Model California Helicopter International S58T
Total production (all variants) 2,300+ ***First flight*** 1954 (S58) 1970 (S58T)
Comments Available with PT6T-3 or PT6T-6 engines. Information shown is for -6 version.
Engine(s) (2) P&W PT6T-6 Twin Pac ***HP (takeoff)*** 1,875 shp
Dimensions main rotor 56 ft/17.07m ***Tail rotor*** 9.5 ft/2.90m
Height 15.92 ft/4.5m ***Length*** 50.92 ft/15.32m ***Width*** 5.66 ft/1.73m
Empty weight 7,577 lbs/3,436 kg ***Gross weight*** 13,000 lbs/5,896 kg
Useful load 5,423 lbs/2,460 kg ***External*** 5,000 lbs/2,250 kg
Vne 117 kts/216 kmh ***Max cruise*** 110 kts/204 kmh
Max rate of climb 1,220 fpm/372 mpm
HIGE 10,400 ft/3,170m ***HOGE*** 6,500 ft/1,981m
Service ceiling 12,800 ft/3,901m ***S/E service ceiling*** 4,300 ft/1,311m
Std fuel 283 gal/1,071 lit ***Max fuel*** 433 gal/1,645 lit
Max range std fuel (no reserve) 280 nm/518 km
Range with opt fuel 420 nm/777 km
VFR Crew 1 ***Passengers*** 18
Standard avionics VHF20, ADF60, VOR, VIR31.
1987 base price ($U.S.) Furnished upon request.
For more information contact California Helicopter (805)644-5800

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Manufacturer/Model E.H. Industries, Ltd./EH 101
Total production (all variants) Under development ***First flight*** Due 1986
Comments Joint development/production between Westland Helicopters,
Ltd. and Costruzioni Aeronautiche Giovanni Agusta Spa.
Engine(s) (3) GE CT7/6A ***HP (takeoff)*** 2,000 shp
Dimensions main rotor 61 ft/18.59m ***Tail rotor*** 13.13 ft/4.0m
Height 17.6 ft/5.35m ***Length*** 64 ft/19.5m ***Width*** 14.25 ft/4.34m
Empty weight 19,052 lbs/8,642 kg ***Gross weight*** 31,500 lb/14,288 kg
Useful load 12,448 lbs/5,642 kg ***External*** 15,000 lbs/6,804 kg
Vne 167 kts/309 kmh ***Max cruise*** 150 kts/277 kmh
Max rate of climb 2,200 fpm/670 mpm
HIGE 8,250 ft/2,515m ***HOGE*** 3,500 ft/1,067m
Service ceiling 15,000 ft/4,572m ***S/E service ceiling*** 12,900 ft/3,932m
Std fuel 348 gal/1,318 lit ***Max fuel*** 454 gal/1,719 lit
Max range std fuel (no reserve) 690 nm/1,277 km
Range with opt fuel 830 nm/1,537 km
VFR Crew 3 ***Passengers*** 30
Standard avionics 4-axis automatic flight control system plus full EFIS cockpit.
1987 base price ($U.S.) TBA
For more information contact John K. Snelling (0935) 75222 ext. 3558

Manufacturer/Model Enstrom Helicopter Corporation Model F-28F
Total production (all variants) 48 ***First flight*** 1980
Comments Enstrom's emphasis on product support and the operator's needs is reflected in the 225 hp "F" series, which provides 2,350 lb gross weight. HIGE capabilities on an ISA + 30 degree day at 9,400 ft.
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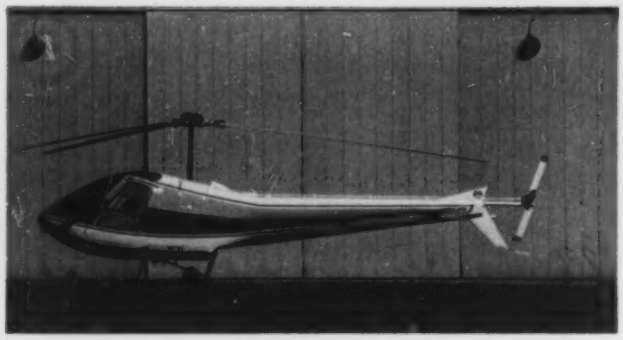
Engine(s) (1) Lycoming HIO-360-F1ADw/Rayjayturbo ***HP (continuous)*** 225 hp
Dimensions main rotor 32 ft/9.75m ***Tail rotor*** 4.78 ft/1.45m
Height 9 ft/2.74m ***Length*** 29.3 ft/8.9m ***Width*** 7.5 ft/2.29m
Empty weight 1,550 lbs/703 kg ***Gross weight*** 2,600 lbs/1,180 kg
Useful load 1,050 lbs/476 kg ***External*** 1,000 lbs/453.6 kg
Vne 97 kts/180 kmh (SL to 915m) ***Max cruise*** 97 kts/180 kmh
Max rate of climb 1,450 fpm/440 mpm
HIGE 13,200 ft/4,023m ***HOGE*** 8,700 ft/2,650m @ 2,350 lbs
HIGE 7,800 ft/2,375m @ 2,600 lbs
Service ceiling 12,000 ft/3,650m (max. op. alt.) ***S/E service ceiling*** N/A
Std fuel 40 gal/151 lit ***Max fuel*** 52.7 gal/200 lit
Max range std fuel (no reserve) 228 nm/423 km
Range with opt fuel 313 nm/580 km
VFR Crew 1 ***Passengers*** 2
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $158,900
For more information contact Paul L. Shultz (906)863-9971



Manufacturer/Model Enstrom Helicopter Corporation Model 280F
Total production (all variants) 15 ***First flight*** 1980
Comments no longer in production.
Engine(s) (1)Lycoming H10-360-F1ADw/Rayjayturbo ***HP (takeoff)*** 225hp
Dimensions main rotor 32ft/9.75m ***Tail rotor*** 4.78ft/1.345m
Height 9ft/2.74m ***Length*** 27.7ft/8.4m ***Width*** 7.5ft/2.29m
Empty weight 1,550 lbs/703 kg ***Gross weight*** 2,600 lbs/1,880 kg
Useful load 1,050 lbs/476 kg ***External*** 1,000 lbs/453.6 kg
Vne 102 kts/188 kmh (SL to 915m) ***Max cruise*** 102 kts/188 kmh
Max rate of climb 1,450 fpm/440 mpm
HIGE 13,200 ft/4,023m ***HOGE*** 8,700 ft/2,652m @ 2,350 lb.
HIGE 7,800 ft/2,375m @ 2,600 lb.
Service ceiling 1,200 ft/3,650m (max. op. alt.) ***S/E service ceiling*** N/A
Std fuel 40 gal/151 lit ***Max fuel*** 52.7 gal/200 lit
Max range std fuel (no reserve) 241 nm/446 km
Range with opt fuel 318 nm/589 km
VFR Crew 1 ***Passengers*** 2
Standard avionics None.
1987 base price ($U.S.) No longer in production.
For more information contact Paul L. Schultz (906)863-9971

Manufacturer/Model Enstrom Helicopter Corporation Model 280FX
Total production (all variants) 12 ***First flight*** 1984
Comments T.C. Jan. 1985. Basic 280 series with new stabilizers, landing gear fairings, tail rotor driveshaft cover, restyled air inlet system, tail rotor guard.
Engine(s) (1) TurboLycoming HIO-360-F1AD ***HP (continuous)*** 225 shp
Dimensions main rotor 32.0 ft/9.75m ***Tail rotor*** 4.8 ft/1.46m
Height 9.3 ft/2.83m ***Length*** 27.8 ft/8.45m ***Width*** 7.5 ft/2.29m
Empty weight 1,570 lbs/711 kg ***Gross weight*** 2,600 lbs/1,180 kg
Useful load 1,030 lbs/466 kg ***External*** 1,000 lbs/453 kg
Vne 101 kts/188 kmh ***Max cruise*** 101 kts/188 kmh
Max rate of climb 1,450 fpm/440 mpm
HIGE 13,200 ft/4,023m ***HOGE*** 8,700 ft/TBA ft/2,650m @ 2,350 lbs
Service ceiling 12,000 ft/3,650m (max. op. alt.) ***S/E service ceiling*** N/A
Std fuel 42 gal/159 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 260 nm/345 km
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 2
Standard avionics Com KY 197, Transponder KT76A, Loran C-Model 611.
1986 base price ($U.S.) $173,900 w/avionics $184,500
For more information contact Paul L. Shultz (906)863-9971

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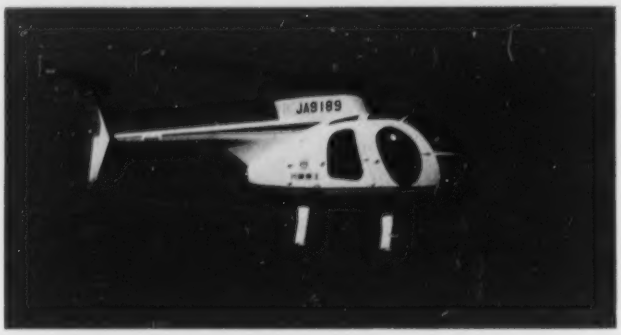
Manufacturer/Model Rogerson Hiller Corporation UH12E
Total production (all variants) 1000+ ***First flight*** 1958
Comments None.
Engine(s) (1) Lycoming VO 540-C2A ***HP (takeoff)*** 340 shp
Dimensions main rotor 35.40 ft/10.78m ***Tail rotor*** 5.50 ft/1.67m
Height 10.08 ft/3.07m ***Length*** 28.5 ft/8.68m ***Width*** 4.9 ft/1.5m
Empty weight 1,759 lbs/797.87 kg ***Gross weight*** 3,100 lbs/1,406.14 kg
Useful load 1,341 lbs/608.27 kg ***External*** 1,000 lbs/453.59 kg
Vne 96 kts/177.79 kmh ***Max cruise*** 78 kts/144.46 kmh
Max rate of climb 1,290 fpm/193.19 mpm
HIGE 10,400 ft/3,169.92m ***HOGE*** 6,800 ft/2,072.64m
Service ceiling 15,000 ft/4,572m ***S/E service ceiling*** N/A
Std fuel 46 gal/174.13 lit ***Max fuel*** 86 gal/325.55 lit
Max range std fuel (no reserve) 210 nm/389 km
Range with opt fuel 405 nm/750 km
VFR Crew 1 ***Passengers*** 2
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Victor Milner (714)660-0666

Manufacturer/Model Rogerson Hiller Corporation RH1100C
Total production (all variants) 250 ***First flight*** 1962
Comments None.
Engine(s) (1) Allison 250-C20B ***HP (takeoff)*** 420 shp
Dimensions main rotor 35.41 ft/10.79m ***Tail rotor*** 6 ft/1.83m
Height 9.08 ft/2.77m ***Length*** 28.37 ft/8.65m ***Width*** 4.34 ft/1.32m
Empty weight 1,500 lbs/680.39 kg ***Gross weight*** 2,850 lbs/1,292.74 kg
Useful load 1,335 lbs/604.75 kg ***External*** 1,250 lbs/566.99 kg
Vne 127 kts/235.2 kmh ***Max cruise*** 127 kts/235.2 kmh
Max rate of climb 1,600 fpm/487.68 mpm
HIGE 17,000 ft/5,181.60m ***HOGE*** 12,000 ft/3,657.6m
Service ceiling 17,300 ft/5,273m ***S/E service ceiling*** N/A
Std fuel 68.5 gal/259.30 lit ***Max fuel*** 108.5 gal/410.72 lit
Max range std fuel (no reserve) 390 nm/739 km
Range with opt fuel 635 nm/1,176 km
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Victor Milner (714)660-0666

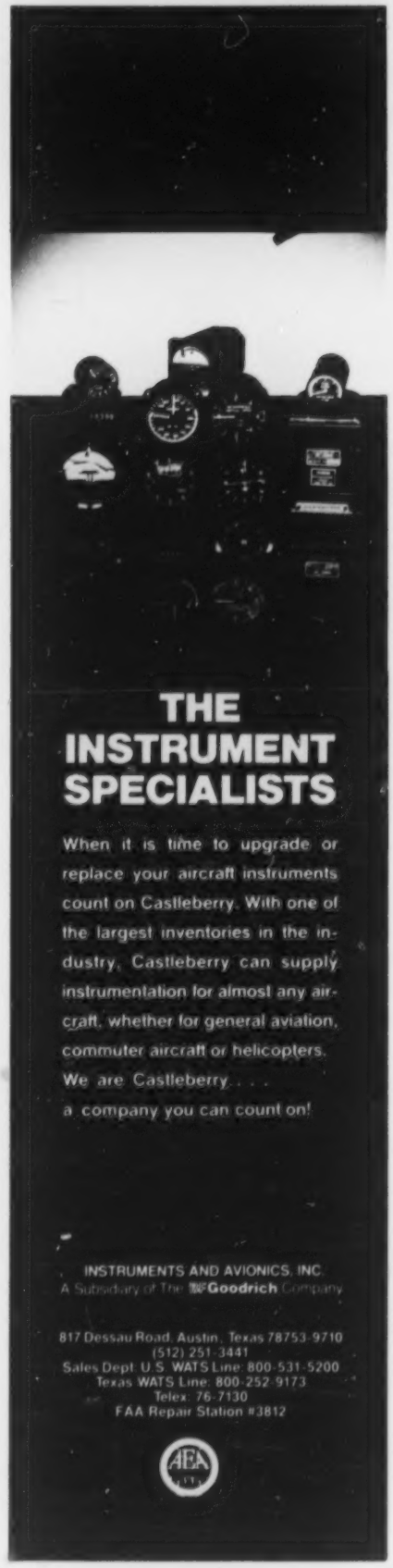


Manufacturer/Model Kawasaki Heavy Industries, Ltd./Kawasaki-Hughes H500 series
Total production (all variants) 306 ***First flight*** 1967
Comments Manufactured under license from Hughes Helicopter. A light weight high performance 5 seat helicopter.
Engine(s) (1) D.D. Allison 250-C20B (D model) ***HP (takeoff)*** 420 shp
Dimensions main rotor 26.42 ft/8.05m ***Tail rotor*** 4.58 ft/1.40m
Height 8.94 ft/2.72m ***Length*** 30.5 ft/9.30m ***Width*** 6.79 ft/2.07m
Empty weight 1,369 lbs/621 kg ***Gross weight*** 3,000 lbs/1,361 kg
Useful load 1,631 lbs/740 kg ***External*** 2,181 lbs/989 kg
Vne 152 kts/282 kmh ***Max cruise*** 139 kts/258 kmh
Max rate of climb 1,875 fpm/572 mpm
HIGE 8,500 ft/2,591m ***HOGE*** 7,400 ft/2,256m
Service ceiling 14,700 ft/4,481m ***S/E service ceiling*** N/A
Std fuel 64 gal/242 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 260 nm/481 km
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) N/A
For more information contact Keishiro Tanaka (03) 435-2495

Manufacturer/Model Kawasaki Heavy Industries, Ltd./Kawasaki BK117
Total production (all variants) 6 ***First flight*** 1979
Comments A true multi-purpose light-twin helicopter jointly developed by
kawasaki and MBB of West Germany. Safety, reliability and versatility are the prime design objectives.
Engine(s) (2) Avco-Lycoming LTS101-650B-1 ***HP (takeoff)*** 550 shp ea.
Dimensions main rotor 36.09 ft/11m ***Tail rotor*** 6.42 ft/1.956m
Height 11.02 ft/3.36m ***Length*** 42.65 ft/13m ***Width*** 8.86 ft/2.70m
Empty weight 3,660 lbs/1,660 kg ***Gross weight*** 7,056 lbs/3,200 kg
Useful load 3,396 lbs/1,540 kg ***External*** N/A
Vne 150 kts/278 kmh ***Max cruise*** 134 kts/248 kmh
Max rate of climb 1,900 fpm/582 mpm
HIGE 4,900 ft/1,490m (17kt cross wind) ***HOGE*** 5,900 ft/1,800m
Service ceiling 15,000 ft/4,572m @ 3,000 kg ***S/E service ceiling*** 4,200 ft/1,280m
Std fuel 156 gal/590 lit ***Max fuel*** 236 gal/900 lit
Max range std fuel (no reserve) 261 nm/484 km (at best range speed, S/L)
Range with opt fuel 401 nm/742 km, S/L
(The above data are based on 3,200 kg gross weight except stated).
VFR Crew 1 ***Passengers*** 10
Standard avionics One VHF (Collins VHF-251).
1987 base price ($U.S.) N/A
For more information contact Keishiro Tanaka (03) 435-2495

Manufacturer/Model Kawasaki Heavy Industries, Ltd./Kawasaki Bell 47/G3B-KH4
Total production (all variants) 439 ***First flight*** 1961 (KH4)
Comments Manufactured under the license from Bell Helicopter. KH4 was a modified version of 47G3B to accommodate one crew and three passengers, and the best seller in Japan.
Engine(s) (1) Avco-Lycoming TVO-435 ***HP (takeoff)*** 260 shp
Dimensions main rotor 37.13 ft/11.32m ***Tail rotor*** 5.84 ft/1.78m
Height 9.3 ft/2.84m ***Length*** 43.63 ft/13.3m ***Width*** 9.46 ft/2.88m
Empty weight 1,850 lbs/839 kg ***Gross weight*** 2,850 lbs/1,293 kg
Useful load 1,000 lbs/454 kg ***External*** 1,000 lbs/454 kg
Vne 91 kts/168 kmh ***Max cruise*** 75 kts/139 kmh (5,000 ft)
Max rate of climb 850 fpm/259 mpm
HIGE 18,000 ft/5,486m ***HOGE*** 15,000 ft/4,572m
Service ceiling 18,500 ft/5,639m ***S/E service ceiling*** N/A
Std fuel 53 gal/201 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 214 nm/397 km (5,000 ft)
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 3
Standard avionics None.
1987 base price ($U.S.) Out of production.
For more information contact Keishiro Tanaka (03) 435-2495

Manufacturer/Model Kawasaki-Boeing KV107IIA
Total production (all variants) 143 ***First flight*** 1962
Comments Kawasaki-built KV107's are operated by the Japan Self-Defense Forces, Tokyo Police, Airlift Corp., (Japan), Columbia Helicopters, (U.S.), the Royal Swedish Navy, & the Ministry of Interior, Saudi Arabia.
Engine(s) (2) CT58-140-1 or CT58-IHI-140-1 ***HP (takeoff)*** 1,400 shp
Dimensions main rotor 50 ft/15.24m ***Tail rotor*** N/A
Height 16.10 ft/5.13m ***Length*** 83.4 ft/25.40m ***Width*** 14.6 ft/4.42m
Empty weight 11,570 lbs/5,248 kg ***Gross weight*** 19,000 lbs/8,618 kg
Useful load 7,430 lbs/3,370 kg ***External*** 7,430 lbs/3,370 kg
Vne 146 kts/270 kmh ***Max cruise*** 135 kts/250 kmh
Max rate of climb 2,000 fpm/610 mpm
HIGE 12,000 ft/3,810m ***HOGE*** 9,000 ft/2,743m
Service ceiling 18,000 ft/5,486m ***S/E service ceiling*** 5,700 ft/1,740m
Std fuel 350 gal/1,325 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 238 nm/441 km
Range with opt fuel N/A
VFR Crew 3 ***Passengers*** 25
Standard avionics ADF, Gyro compass, transponder, VHF, ICS, SAS AST.
1986 base price ($U.S.) $7,500,000
For more information contact International Sales (03) 435-2461
Telex: 242-4371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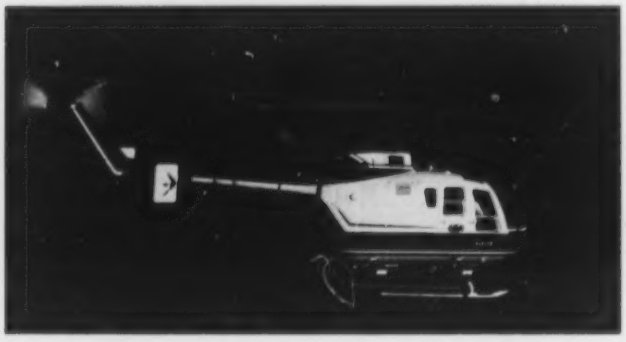
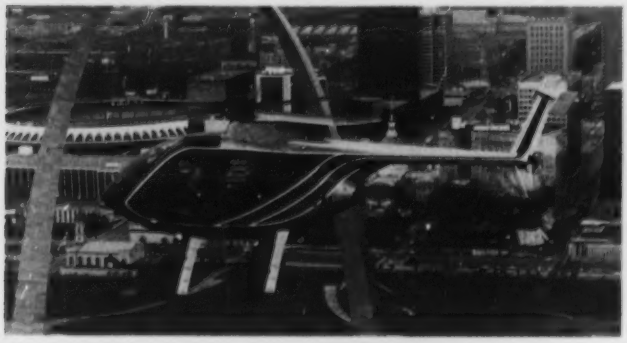
Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BO 105 CB
Total production (all variants) 1,200 ***First flight*** 1975
Comments World's first light, twin-engine helicopter for commercial use. Proven successful in executive transport, utility, offshore, police, military and EMS use.
Engine(s) (2) Allison 250-C20B ***HP (takeoff)*** 420 shp
Dimensions main rotor 32.35 ft/9.84m ***Tail rotor*** 6.17 ft/1.9m
Height 9.08 ft/3m ***Length*** 38.09 ft/11.8m ***Width*** 8.35 ft/2.53m
Empty weight 2,780 lbs/1,261 kg ***Gross weight*** 5,291 lbs/2,400 kg
Useful load 2,511 lbs/1,139 kg ***External*** 1,984 lbs/900 kg
Vne 145 kts/270 kmh ***Max cruise*** 131 kts/242 kmh
Max rate of climb 1,476 fpm/450 mpm
HIGE 7,600 ft/2,030m ***HOGE*** 5,300 ft/1,620m
Service ceiling 17,000 ft/5,180m ***S/E service ceiling*** 2,920 ft/890m
Std fuel 151.3 gal/572.9 lit ***Max fuel*** 256.7 gal/969 lit
Max range std fuel (no reserve) 310 nm/575 km
Range with opt fuel 540 nm/1,000 km
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215)431-4150, Ext. 311



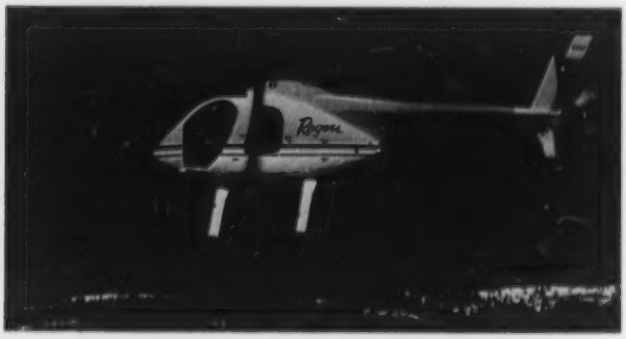
Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BO 105 CBS
Total production (all variants) 1,200 ***First flight*** N/A
Comments BO 105 CBS incorporates a stretched fuselage cabin area, totalling 130 cubic feet of continuous space with access from sides and rear. Optional gross wt. of 5,512 lbs. available.
Engine(s) (2) Allison 250-C20B ***HP (takeoff)*** 420 shp
Dimensions main rotor 32.35 ft/9.84m ***Tail rotor*** 6.17 ft/1.9m
Height 9.08 ft/3m ***Length*** 38.09 ft/11.8m ***Width*** 8.35 ft/2.53m
Empty weight 2,780 lbs/1,261 kg ***Gross weight*** 5,291 lbs/2,400 kg
Useful load 2,511 lbs/1,139 kg ***External*** 1,984 lbs/900 kg
Vne 145 kts/270 kmh ***Max cruise*** 131 kts/242 kmh
Max rate of climb 1,476 fpm/450 mpm
HIGE 7,600 ft/2,303m ***HOGE*** 5,300 ft/1,620m
Service ceiling 17,000 ft/5,180m ***S/E service ceiling*** 2,920 ft/890m
Std fuel 151.3 gal/572.9 lit ***Max fuel*** 256.7 gal/969 lit
Max range std fuel (no reserve) 310 nm/575 km
Range with opt fuel 540 nm/1,000 km
VFR Crew 1 ***Passengers*** 5
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215)431-4150, Ext. 311

Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BO105LS
Total production (all variants) N/A ***First flight*** N/A
Comments Designed especially for "hot" and "high" operating environments and external lifting applications. Max. combined gross mass of helicopter (2,400 kg) and cargo hook load is 2,600 kg-200 kg must be jettisonable.
Engine(s) (2) Allison 250-C28C ***HP (takeoff)*** 550 shp
Dimensions main rotor 32.35 ft/9.84m ***Tail rotor*** 6.17 ft/1.9m
Height 9.08 ft/3.0m ***Length*** 38.09 ft/11.8m ***Width*** 8.35 ft/2.53m
Empty weight 2,932 lbs/1,330 kg ***Gross weight*** 5,291 lbs/2,400 kg
Useful load 2,359 lbs/1,070 kg ***External*** 2,720 lbs/2,636 kg
Vne 145 kts/269 kmh ***Max cruise*** 132 kts/244 kmh
Max rate of climb 1,820 fpm/555 mpm
HIGE 12,360 ft/3,850m ***HOGE*** 10,830 ft/3,300m
Service ceiling 20,000 ft/6,100m ***S/E service ceiling*** 9,646 ft/2,940m
Std fuel 150 gal/567.8 lit ***Max fuel*** N/A
Max range std fuel (no reserve) 290 nm/536 km
Range with opt fuel N/A
VFR Crew 1 ***Passengers*** 5
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215) 431-4150, Ext. 311

Manufacturer/Model Messerschmitt-Boelkow-Blohm GmbH BK 117 A-3
Total production (all variants) 70 ***First flight*** N/A
Comments Medium twin-engine, multi-purpose helicopter with 200 cubic feet of continuous cabin space, accessible from sides or rear. Employs proven BO 105 advanced technology.
Engine(s) (2) Lycoming LTS-101-650 B1 ***HP (takeoff)*** 550 shp ea.
Dimensions main rotor 36.09 ft/11m ***Tail rotor*** 6.29 ft/1.92m
Height 11.02 ft/3.36m ***Length*** 32.74 ft./9.98m ***Width*** 8.17 ft/2.5m
Empty weight 3,638 lbs/1,650 kg ***Gross weight*** 7,056 lbs/3,207 kg
Useful load 3,417 lbs/1,557 kg ***External*** N/A
Vne 150 kts/278 kmh ***Max cruise*** 136 kts/251 kmh
Max rate of climb 1,950 fpm/594 mpm
HIGE 9,850 ft/3,000m ***HOGE*** 8,200 ft/2,500m
Service ceiling 15,000 ft/4,572m ***S/E service ceiling*** 8,695 ft/2,650m
Std fuel 160 gal/608 lit ***Max fuel*** 289 gal/1,093 lit
Max range std fuel (no reserve) 270 nm/500 km
Range with opt fuel 505 nm/735 km
VFR Crew 1 ***Passengers*** 9
Standard avionics None. Optional factory installed avionics available.
1987 base price ($U.S.) Furnished upon request.
For more information contact Louis P. Bartolotta (215)431-4150, Ext. 311



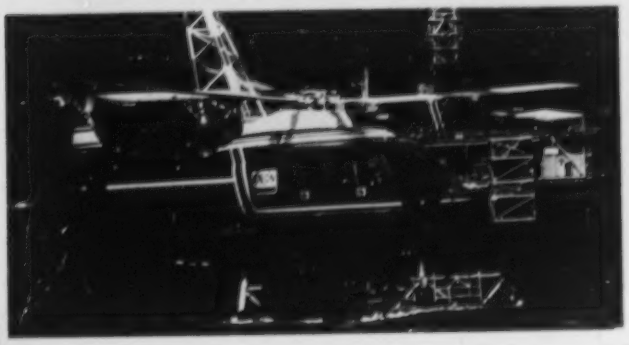
Manufacturer/Model McDonnell Douglas Helicopter Company Model 500E
Total production (all variants) 3,750 ***First flight*** 1982
Comments The 500E is the latest version of the Model 500 series which began in 1962 with the US Army OH-6A. It incorporates important changes in comfort and styling recommended by the customer.
Engine(s) (1) Allison 250-C20B ***HP (takeoff)*** 420 shp
Dimensions main rotor 26.35 ft/8.03m ***Tail rotor*** 4.58 ft/1.4m
Height 9.18 ft/2.8m ***Length*** 30.8 ft/9.4m ***Width*** 6.07 ft/1.85m
Empty weight 1,455 lbs/660 kg ***Gross weight*** 3,000 lbs/1,361 kg
Useful load 1,545 lbs/700 kg ***External*** 2,000 lbs/950 kg
Vne 152 kts/282 kmh ***Max cruise*** 139 kts/258 kmh
Max rate of climb 1,900 fpm/579 mpm
HIGE 8,500 ft/2,591m ***HOGE*** 7,400 ft/2,255m
Service ceiling 14,700 ft/4,481m ***S/E service ceiling*** N/A
Std fuel 64 gal/242 lit ***Max fuel*** 115 gal/435 lit
Max range std fuel (no reserve) 287 nm/532 km (5,000 ft)
Range with opt fuel 533 nm/988 km (5,000 ft)
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $414,750
For more information contact Max E. Wiley (602)891-5505



Manufacturer/Model McDonnell Douglas Helicopter Company Model 530F
Total production (all variants) 55 ***First flight*** 1982
Comments Hot day/high altitude version of Model 500 series. Incorporates all features of 500E plus larger rotors, high gross weight.
Engine(s) (1) Allison 250-C30 ***HP (takeoff)*** 650 shp
Dimensions main rotor 27.4 ft/8.4m ***Tail rotor*** 4.75 ft/1.45m
Height 9.18 ft/2.8m ***Length*** 32.06 ft/9.77m ***Width*** 6.07 ft/1.85m
Empty weight 1,585 lbs/719 kg ***Gross weight*** 3,100 lbs/1,406 kg
Useful load 1,515 lbs/687 kg ***External*** 2,000 lbs/1,610 kg
Vne 152 kts/282 kmh ***Max cruise*** 135 kts/250 kmh
Max rate of climb 1,540 fpm/469 mpm
HIGE 14,200 ft/4,328m ***HOGE*** 12,000 ft/3,658m
Service ceiling 16,000 ft/4,877m ***S/E service ceiling*** N/A
Std fuel 64 gal/242 lit ***Max fuel*** 115 gal/435 lit
Max range std fuel (no reserve) 239 nm/443 km (5,000 ft)
Range with opt fuel 448 nm/830 km (5,000 ft)
VFR Crew 1 ***Passengers*** 4
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $566,500
For more information contact Max E. Wiley (602)891-5505

Manufacturer/Model Robinson R22 Beta
Total production (all variants) 550 ***First flight*** 1975
Comments Top selling piston helicopter used for powerline patrol, flight training, herding, TV & feature filming, traffic watch, photography, law enforcement, construction & oil industry support, executive & personal transport.
Engine(s) (1) Lycoming O-320-B2C ***HP (takeoff)*** 160 hp derated to 131hp
Dimensions main rotor 25.2 ft/7.7m ***Tail rotor*** 3.5 ft/1.1m
Height 8.75 ft/2.7m ***Length*** 28.75 ft/8.8m ***Width*** 6.33 ft/1.9m
Empty weight 824 lbs/374 kg ***Gross weight*** 1,370 lbs/621 kg
Useful load 546 lbs/248 kg ***External*** None
Vne 102 kts/189 kmh ***Max cruise*** 96 kts/178 kmh
Max rate of climb 1,000 fpm/305 mpm
HIGE 6,970 ft/2,124m ***HOGE*** 5,200 ft
Service ceiling 14,000 ft/4,267m ***S/E service ceiling*** N/A
Std fuel 19.2 gal/72.7 lit ***Max fuel*** 29.7 gal
Max range std fuel (no reserve) 209 nm/386.3 km
Range with opt fuel 323 nm/598.2 km
VFR Crew 1 ***Passengers*** 1
Standard avionics King KY 197 COMM transceiver with intercom.
1986 base price ($U.S.) $85,850 includes dual controls, rotor brake, night lights and rate-of-climb.
For more information contact Barbara Krauss (213)539-0508

Manufacturer/Model Schweizer Aircraft Corp. Hughes Model 300C
Total production (all variants) 2,700+ ***First flight*** 1971
Comments The 300C is the latest version of the Model 300 series which began in 1956 and is being build by Schweizer Aircraft (a Hughes licensee) in Elmira, New York.
Engine(s) (1) Lycoming HIO-360-D1A ***HP (takeoff)*** 190 hp
Dimensions main rotor 26.84 ft/8.18m ***Tail rotor*** 4.25 ft/1.30m
Height 8.75 ft/2.67m ***Length*** 22.2 ft/6.76m ***Width*** 6.54 ft/1.99m
Empty weight 1,100 lbs/499 kg ***Gross weight*** 2,050 lbs/930 kg
Useful load 950 lbs/431 kg ***External*** 1,050 lbs/476 kg
Vne 91 kts/169 kmh ***Max cruise*** 83 kts/154 kmh (4,000 ft)
Max rate of climb 750 fpm/229 mpm at gross weight
HIGE 6,000 ft/1,829m ***HOGE*** 2,700 ft/823m
Service ceiling 10,200 ft/3,109m ***S/E service ceiling*** N/A
Std fuel 30 gal/113 lit ***Max fuel*** 49 gal/185 lit
Max range std fuel (no reserve) 230 nm/426 km (4,000 ft)
Range with opt fuel 376 nm/6,197 km (4,000 ft)
VFR Crew 1 ***Passengers*** 2
Standard avionics None. Optional factory installed avionics available.
1986 base price ($U.S.) $139,500
For more information contact Larry A. Brooks (607)739-3821



Manufacturer/Model Sikorsky S-76A MKII
Total production (all variants) 293 ***First flight*** 1977
Comments None.
Engine(s) (2) Allison 250-C30S ***HP (takeoff)*** 650 shp ea.
Dimensions main rotor 44 ft/13.41m ***Tail rotor*** 8 ft/2.44m
Height 14.48 ft/4.41m ***Length*** 52.5 ft/16.0m ***Width*** 10 ft/3.05m
Empty weight 5,930 lbs/2,689 kg ***Gross weight*** 10,500 lbs/4,763 kg
Useful load 4,570 lbs/2,073 kg ***External*** 3,300 lbs/1,497 kg
Vne 155 kts/287 kmh ***Max cruise*** 145 kts/268 kmh
Max rate of climb 1,640 fpm/8.33 m/sec.
HIGE 2,450 ft/747m ***HOGE*** 1,400 ft/427m
Service ceiling 14,200 ft/4,328m ***S/E service ceiling*** 4,460 ft/1,359m
Std fuel 281 gal/1,064 lit ***Max fuel*** 387 gal/1,463 lit
Max range std fuel (no reserve) 475 nm/880 km @ 125 kts
Range with opt fuel 669 nm/1,239 km @ 125 kts
VFR Crew 1 ***Passengers*** 13
Stanadard avionics Collins VHF Comm.
1986 base price ($U.S.) $2,850,000
For more information contact Vaughan Askue (203)381-6157

Manufacturer/Model Sikorsky S-70C
Total production (all variants) 880 ***First flight*** 1978
Comments Commercial variant of the H-60 "HAWK" Series.
Engine(s) (2) G.E. CT7-2C ***HP (takeoff)*** 1,565 hp
Dimensions main rotor 53.9 ft/16.4m ***Tail rotor*** 11 ft/3.4m
Height 16.8 ft/5.1m ***Length*** 50.1 ft/15.3m ***Width*** 7.8 ft/2.4m
Empty weight 10,158 lbs/4,608 kg ***Gross weight*** Design 16,825 lbs/7,623 kg Max 22,000 lbs/9,979 kg
Useful load 11,842 lbs/5,371 kg ***External*** 8,000 lbs/3,629 kg
Vne 193 kts/358 kmh ***Max cruise*** 162 kts/300 kmh
Max rate of climb 2,770 fpm/844 mpm
HIGE 14,200 FT/4,329m ***HOGE*** 9,950 ft/3,033m
Service ceiling 19,000 ft/5,971m ***S/E service ceiling*** 10,100 ft/3,079m
Std fuel 362 gal/1,370 lit ***Max fuel*** 362 gal/1,370 lit
Max range std fuel (no reserve) 350 nm/648 km @ 145 kts/269 kmh
Range with opt fuel N/A
VFR Crew 2 ***Passengers*** 19
Standard avionics AFCS including attitude and airspeed hold.
1987 base price ($U.S.) Furnished upon request.
For more information contact Vaughan Askue (203)381-6157

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Manufacturer/Model Sikorsky S-76B
Total production (all variants) 293 ***First flight*** 1977
Comments Enhanced hot high performance over S-76A.
Engine(s) (2) P&W PT6B-36 ***HP (takeoff)*** 981 shp ea.
Dimensions main rotor 44 ft/13.41m ***Tail rotor*** 8 ft/2.44m
Height 14.48 ft/4.41m ***Length*** 52.5 ft/13.21m ***Width*** 10 ft/3.05m
Empty weight 6,656 lbs/3,019 kg ***Gross weight*** 11,400 lbs/5,171 kg
Useful load 4,744 lbs/2,151 kg ***External*** N/A
Vne 155 kts/287 kmh ***Max cruise*** 145 kts/268 kmh
Max rate of climb N/A
HIGE 8,300 ft/2,530m ***HOGE*** 5,000 ft/1,524m
Service ceiling 15,000 ft/4,572m ***S/E service ceiling*** 4,500 ft/1,372m
Std fuel 281 gal/1,064 lit ***Max fuel*** 331 gal/1,252 lit
Max range std fuel (no reserve) 397 nm/736 km @ 3,000 ft, 130 kts
Range with opt fuel 473 nm/876 km @ 3,000 ft, 130 kts
VFR Crew 1 ***Passengers*** 13
Standard avionics Collins VHF Comm.
1986 base price ($U.S.) $3,175,000
For more information contact Vaughan Askue (203)581-6157

Manufacturer/Model Soloy Conversions, Soloy-Hiller UH12E4
Total production (all variants) 12 ***First flight*** 1974
Comments Conversions for the Hiller UH12D and E models to turbine power. Combines features of Hiller with the Allison 250-C20B powerplant providing significant performance benefits.
Engine(s) (1) Allison 250-C20B ***HP (takeoff)*** 305 shp
Dimensions main rotor 35.33 ft/10.77m ***Tail rotor*** 5.55 ft/1.69m
Height 10.08 ft/3.07m ***Length*** 28.9 ft/8.8m ***Width*** 4.9 ft/1.5m
Empty weight 1,727 lbs ***Gross weight*** 3,100 lbs/1,406 kg
Useful load 1,373 lbs ***External*** 1,200 lbs/544 kg
Vne 84 kts/155.57 kmh ***Max cruise*** 78 kts/144.46 kmh
Max rate of climb 1,463 fpm/466 mpm
HIGE 11,300 ft/3,444m ***HOGE*** 8,700 ft/2,652m
Service ceiling 14,000 ft/4,267m ***S/E service ceiling*** N/A
Std fuel 46 gal/174.13 lit ***Max fuel*** 86 gal/325.55 lit
Max range std fuel (no reserve) 159 nm/255 km
Range with opt fuel 274 nm/507 km
VFR Crew 1 ***Passengers*** 3
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Randy Furtick, Marketing Group Manager, Tim Koester, Sales Manager, (206)754-7000

Manufacturer/Model Soloy Conversions, Soloy-Hiller UH12E
Total production (all variants) 185 ***First flight*** 1974
Comments Conversions for the Hiller UH12D and E models to turbine power. Combines features of Hiller with the Allison 250-C20B powerplant providing significant performance benefits.
Engine(s) (1) Allison 250-C20B ***HP (takeoff)*** 305 shp
Dimensions main rotor 35.33 ft/10.77m ***Tail rotor*** 5.55 ft/1.69m
Height 10.08 ft/3.07m ***Length*** 28.42 ft/8.66m ***Width*** 4.9 ft/1.5m
Empty weight 1,650 lbs/748 kg ***Gross weight*** 3,100 lbs/1,406 kg
Useful load 1,450 lbs/658 kg ***External*** 1,200 lbs/544 kg
Vne 84 kts/155.57 kmh ***Max cruise*** 78 kts/144.46 kmh
Max rate of climb 1,706 fpm/420 mpm
HIGE 11,300 ft/3,444m ***HOGE*** 8,700 ft/2,642m
Service ceiling 14,000 ft/4,267m ***S/E service ceiling*** N/A
Std fuel 46 gal/174.13 lit ***Max fuel*** 86 gal/325.55 lit
Max range std fuel (no reserve) 159 nm/255 km
Range with opt fuel 274 nm/507 km
VFR Crew 1 ***Passengers*** 2
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Randy Furtick, Marketing Group Manager, Tim Koester, Sales Manager, (206)754-7000

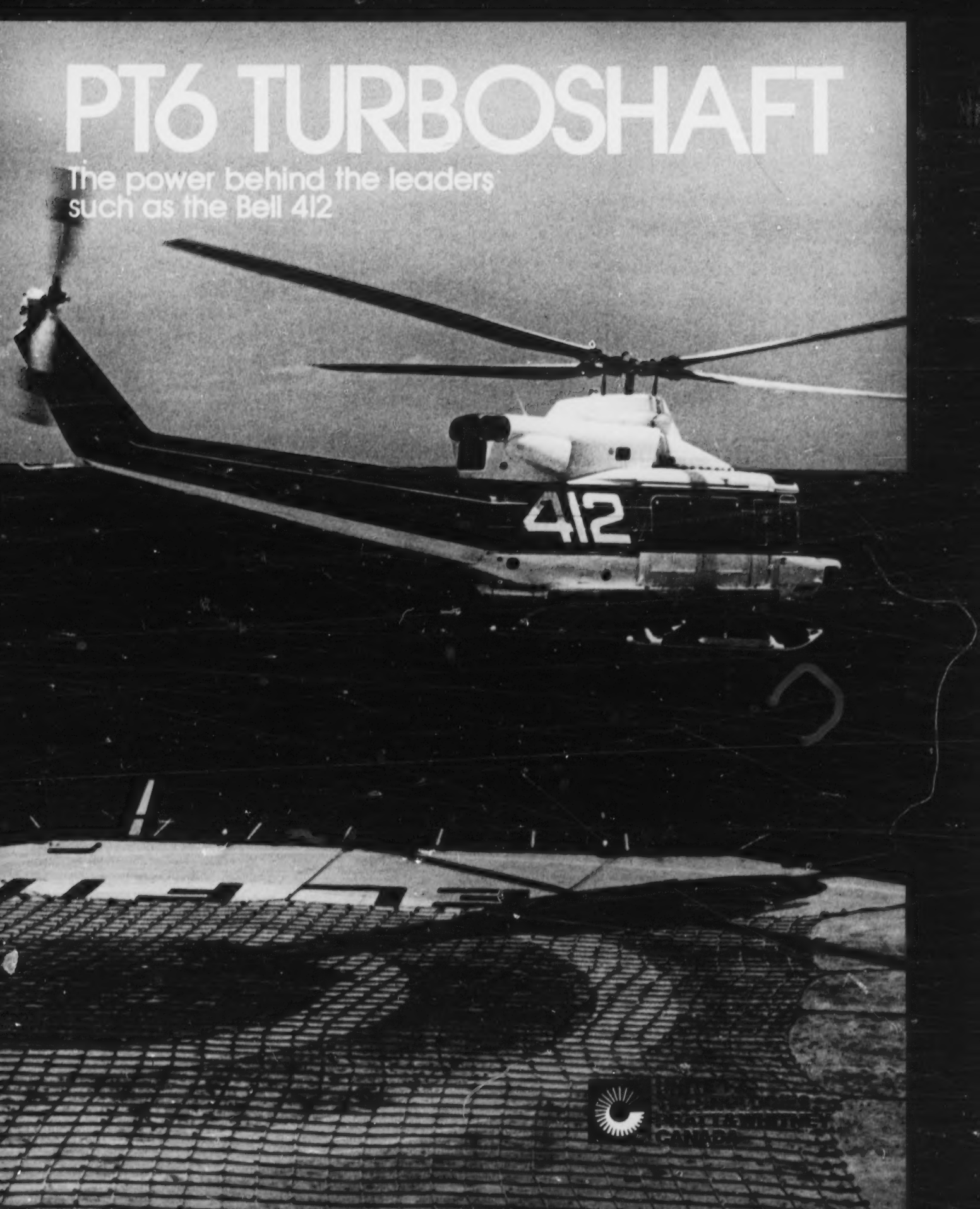
Manufacturer/Model Soloy Conversions, Soloy/Bell 47 (600 Series)
Total production (all variants) 160 ***First flight*** 1976
Comments Eleven models of the Bell 47G are convertible on Type Certificate 2H3. The conversion allows operators the benefits of tubine power at a reasonable cost. Data for 600 series shown.
Engine(s) (1) Allison 250-C20B ***HP (takeoff)*** 265 shp
Dimensions main rotor 35.1 ft/10.5m ***Tail rotor*** 5.10 ft/1.75m
Height 9.3 ft/2.78m ***Length*** 43.2 ft/12.96m ***Width*** 7.5 ft/2.28m
Empty weight 1,570 lbs/705.5 kg ***Gross weight*** 2,950 lbs/1,327.5 kg
Useful load 1,380 lbs/621 kg ***External*** 1,200 lbs/540 kg
Vne 91.5 kts/169 kmh ***Max cruise*** 91.5 kts/169 kmh
Max rate of climb 1,250 fpm/375 mpm
HIGE 16,000 ft/4,877m ***HOGE*** 14,000 ft/4,267m
Service ceiling 16,000 ft/4,877m ***S/E service ceiling*** N/A
Std fuel 57.5 gal/218.5 lit ***Max fuel*** 97.5 gal/369 lit
Max range std fuel (no reserve) 230 nm/426 km
Range with opt fuel 410 nm/759 km
VFR Crew 1 ***Passengers*** 2
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Randy Furtick, Marketing Group Manager, Tim Koester, Sales Manager, (206)754-7000

Manufacturer/Model Soloy Conversions, Soloy/Bell 47 (900 Series)
Total production (all variants) 23 ***First flight*** 1976
Comments Eleven models of the Bell 47G are convertible on Type Certificate 2H3. The conversion allows operators the benefits of turbine power at a reasonable cost. Data for 900 Series shown.
Engine(s) (1) Allison 250-C20B ***HP (takeoff)*** 275 shp
Dimensions main rotor 35.1 ft/10.5m ***Tail rotor*** 5.10 ft/1.75m
Height 9.3 ft/2.78m ***Length*** 43.2 ft/12.96m ***Width*** 7.5 ft/2.28m
Empty weight 1,570 lbs/705.5 kg ***Gross weight*** 3,200 lbs/1,440 kg
Useful load 1,630 lbs/733.5 kg ***External*** 1,200 lbs/540 kg
Vne 91.5 kts/169 kmh ***Max cruise*** 91.5 kts/169 kmh
Max rate of climb 1,250 fpm/375 mpm
HIGE 16,000 ft/4,877m ***HOGE*** 14,600 ft/4,450m
Service ceiling 16,000 ft/4,877m ***S/E service ceiling*** N/A
Std fuel 57.5 gal/218.5 lit ***Max fuel*** 97.5 gal/369 lit
Max range std fuel (no reserve) 230 nm/426 km
Range with opt fuel 410 nm/759 km
VFR Crew 1 ***Passengers*** 2
Standard avionics To customer specifications.
1987 base price ($U.S.) Furnished upon request.
For more information contact Randy Furtick, Marketing Group Manager, Tim Koester, Sales Manager, (206)754-7000

Manufacturer/Model Westland Helicopters Ltd./Westland 30 Series 100-60
Total production (all variants) 22 (W-30) ***First flight*** 1979
Comments The Westland 30 is a large-bodied variant of the successful proven in service Lynx multirole helicopter, of which over 300 aircraft have been produced.
Engine(s) (2) Rolls Royce Gem 60 ***HP (takeoff)*** 1,180 shp
Dimensions main rotor 43.67 ft/13.31m ***Tail rotor*** 8 ft/2.44m
Height 15.5 ft/4.72m ***Length*** 46.67 ft/14.23m ***Width*** 10.17 ft/3.1m
Empty weight 7,348 lbs/3,333 kg ***Gross weight*** 12,800 lbs/5,806 kg
Useful load 5,452 lbs/2,473 kg ***External*** 4,500 lbs/2,042 kg
Vne 133 kts/246 kmh ***Max cruise*** 120 kts/222 kmh
Max rate of climb 2,050 fpm/624.6 mpm
HIGE 2,600 ft/792m ***HOGE*** 2,300 ft/701m
Service ceiling 12,500 ft/3,810m ***S/E service ceiling*** 4,300 ft/1,310m
Std fuel 348 gal/1,318 lit ***Max fuel*** 552 gal/2,090 lit
Max range std fuel (no reserve) 360 nm/667 km
Range with opt fuel 505 nm/935 km
VFR Crew 2 ***Passengers*** 17-19
Standard avionics Autopilot and 4-axis autostabilization, plus avionics to customer specification.
1985 base price ($U.S.) $2,300,000
For more information contact John K. Snelling (0935) 75222 Ext. 3558

Manufacturer/Model Westland Helicopters Ltd./Westland 30 Series 200
Total production (all variants) 22 (W-30) ***First flight*** 1983
Comments The Westland 30 Series 200 is fitted with GE CT7 engines giving high installed power for operation in hot climates, and to provide single engine safety.
Engine(s) (2) GE CT7-2B ***HP (takeoff)*** 1,615 shp
Dimensions main rotor 43.67 ft/13.31m ***Tail rotor*** 8 ft/2.44m
Height 15.5 ft/4.72m ***Length*** 46.67 ft/14.23m ***Width*** 10.17 ft/3.1m
Empty weight 7,912 lbs/3,589 kg ***Gross weight*** 12,800 lbs/5,806 kg
Useful load 4,888 lbs/2,217 kg ***External*** 4,500 lbs/2,024 kg
Vne 133 kts/246 kmh ***Max cruise*** 120 kts/222 kmh
Max rate of climb 2,400 fpm/731.4 mpm
HIGE 2,600 ft/792m ***HOGE*** 2,600 ft/792m
Service ceiling 12,500 ft/3,810m ***S/E service ceiling*** 11,000 ft/3,352m
Std fuel 348 gal/1,318 lit ***Max fuel*** 552 gal/2,090 lit
Max range std fuel (no reserve) 320 nm/593 km
Range with opt fuel 480 nm/889 km
VFR Crew 2 ***Passengers*** 17-19
Standard avionics Autopilot and 4-axis autostabilization, plus avionics to customer specification.
1985 base price ($U.S.) $2,700,000
For more information contact John K. Snelling (0935) 75222 Ext. 3558

Manufacturer/Model Westland Helicopters Ltd./Westland 30 Series 300
Total production (all variants) 22 (W-30) ***First flight*** Due Jan. 1986
Comments Uprated variant of the Westland 30 Series 200 with a new rotor and transmission system and airframe modification, resulting in improved payload-range and higher cruise speed.
Engine(s) (2) GE CT7-6A ***HP (takeoff)*** 2,000 shp
Dimensions main rotor 42.51 ft/12.96m ***Tail rotor*** 9 ft/2.74m
Height 16.32 ft/4.98m ***Length*** 46.67 ft/14.23m ***Width*** 10.17 ft/3.1m
Empty weight 9,564 lbs/4,338 kg ***Gross weight*** 16,000 lbs/7,528 kg
Useful load 6,436 lbs/2,919 kg ***External*** 6,000 lbs/2,722 kg
Vne 171 kts/317 kmh ***Max cruise*** 150 kts/278 kmh
Max rate of climb 2,000 fpm/610 mpm
HIGE 6,300 ft/1,920m ***HOGE*** 4,150 ft/1,265m
Service ceiling 12,500 ft/3,810m ***S/E service ceiling*** 11,000 ft/3,352m
Std fuel 341 gal/1,290 lit ***Max fuel*** 521 gal/1,972 lit
Max range std fuel (no reserve) 290 nm/537 km
Range with opt fuel 400 nm/741 km
VFR Crew 2 ***Passengers*** 17-19
Standard avionics Autopilot and 4-axis autostablilzation; EFIS and integrated fit of basic digital avionics.
1986 base price ($U.S.) TBA
For more information contact John K. Snelling (0935) 75222 Ext. 3558


PT6 TURBOSHAFT
The power behind the leaders
such as the Bell 412
412

Avionics Manufacturers' Specification Guide

The avionics directory provides data on avionics and flight control systems specifically suited for use in helicopters.

The directory has equipment categories listed alphabetically within functional groupings. Prices shown are manufacturers' list, uninstalled. Prices are subject to change based on model variations or capability enhancements.

The length of warranty is shown; however, specific coverage varies and should be confirmed by the manufacturer or dealer.

For complete and current information on any units shown, please contact the manufacturer.

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Communications Audio Control Panels

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Air Comm Systems ACS-300 $2,950	N/A	hot mike, 28 voltage 5 outputs	rotary toggle	6	2.7lbs	N/A	N/A	Price includes cable harness, headset cords, switch cords, custom engraved edgelit plastic panels. Available w/5 pass. option.
Air Comm Systems ACS-775 $3,045;	N/A	hot mike, 28 voltage 1 output	rotary toggle	9	2.0lbs	N/A	N/A	Price includes cable harness, headset cords, switch cords, custom engraved edgelit plastic panels.
Air Comm Systems ACS-775 S.L. $2,650	N/A	hot mike, 28 voltage 1 output	rotary toggle	9	1.5lbs	N/A	N/A	Price includes cable harness, headset cords, switch cords, custom engraved edgelit plastic panels.
Air Comm Systems ACS-1278 $3,500;	N/A	hot mike, 28 voltage 1 output	rotary toggle	14	2.2lbs	N/A	N/A	Price includes cable harness, headset cords, switch cords, custom engraved edgelit plastic panels.

Communications Audio Control Panels (continued)

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Air Comm Systems ACS-179 $1,250	N/A	hot mike, 28 voltage 2 outputs	slave	2	7lbs	N/A	N/A	Price includes cable harness, headset cords, switch cords and custom engraved edgelit plastic panels. 2 pass TX/ICS unit.
Air Comm Systems ACS-700-3 $1,500	N/A	28 voltage, 3 outputs	slave	2	7lbs	N/A	N/A	3 pass. ICS unit w/receive audio. Price includes cable harness, headset cords, switch cords and custom engraved edgelit plastic panels.
Baker M1035 $2,100	27.5/2	intercom, 8 mic sel, auto level & squelch for Rec'r inputs	pushbutton	14	2.2 2.25 5.75 5	2 yr	C50b	Functions customized to customer req. Toggle switches may be substituted for rec'r pushbottons.
Baker M1045 $2,800	27.5/2	Auto audio leveling, squelch for Rec'r inputs, intercom, 10 mic sel	pushbutton	19	2.6 2.62 5.75 5.19	2 yr	C50b	Functions customized to customer req. UK CAA approved. Fr STNA approved.
Collins AUD-250 $805	14.28*/ 1.1(14V)	Auto mike select	switch	— "	1.5 1.5 6.2 4"	1 yr	C50b	*Adapter, $85.
Collins AUD-250H $880	14.28*/ 1.1(14V)	HF mike & audio select	switch	8	1.5 1.5 6.2 4"	1 yr	C50b	For aircraft w HF transceivers. *Adapter, $85.
Collins AUD-251H $1,080	14.28*/ 1.5(14V)	5 station intercom	switch	8	1.5 1.5 6.2 4"	1 yr	C50b	Designed for use in helicopters. *Adapter, $85.
Collins AMR-350 $1,095	14.28*/ 1.0(14V)	MKB	switch	"	1.8 1.5 6.2 4"	1 yr	C35d, C50b	Auto mike select. *Adapter, $85.
Collins AMR-350H $1,270	14.28*/ 1.0(14V)	MKB, HF, mike & audio select	switch	8/	1.8 1.5 6.2 4"	1 yr	C35d, C50b	For aircraft w HF transceivers. *Adapter, $85.
Gables G5881D $3,723	28 VDC/ 1030ma	Intercom, 6 mic selections, 13 audio inputs, emergency select, voice range both filter select	pushbutton mic selectors, toggle switch audio input, selectors	13	2.56lb w spkr amp, 1.81 w/o 2.625 5.75 4.0	2 yr	STC approved	Functions can be modified to meet customer specs.
Gables G6686 $2,522	28 VDC/ 1100ma	6 mic selections, 13 audio inputs, COMM auto, separate volume functions for speaker & interphone	pushbutton	13	2.25lb 2.25 5.75 6.5	2 yr	STC approved	Functions can be modified to meet customer specs.
Gables G6872-01 $1,686.60	28 VDC/ 1000ma	9 mic selections, (w/hot mic, PA INTPH), 25 audio inputs, separate volume for speaker & headphone	pushbutton	25	2.44lb 2.625 5.75 7.0	2 yr	STC	Originally designed for flight approved inspection purposes, features can be modified to meet customer specs.
King/ Bendix ACS145A $3,320	18-33/ 2	Separate speaker/ phone amp, MKB, mute	pushbutton	10	2.6 5 5.75 5.5	2 yr	C50c	10 audio channels plus 5 unmuted inputs, 5 cabin ICS inputs. Self contained system.
King/ Bendix KA 119 $800	28/0.3	5 or 28V panel lighting avail	pushbutton	2 xmtrs, 7 rcvrs	0.9 2.25 5.75/ 5.15	1yr p&l	C506	For use w/remote mounted audio amp KAA455, $2,680. Dzus rail mounted. Gray or black faceplate, HF input avail.
King/ Bendix KA 134 $535	14.28/ 0.8(14V) 1.3(28V)	Audio isolation & spk amp	pushbutton	5 xmtrs, 5 rcvrs 5 un-switched rcvrs	0.8 1.2 3.3/7.75	1 yr p&l	C506	Blt-in spk audio amp "Both" button allows monitoring of the unselected xcvr. No MKB.

Communications Audio Control Panels (continued)

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
King/ Bendix KMA 24 $1,040	14.28/ 1.9	Integ MKB rcvr & lites	rotary xmit & pushbutton audio selectors	5 xcvrs, 5 add'l rcvrs,2 unswitched	1.7/1.3/ 6.25/ 6.78	1 yr p&l	C35d, C506	Separate pushbutton for hdphn & spk selection; separate isolation amps for hdphn & spk input incl. Panel mounted.
King/ Bendix KMA 24H $1,325	14.28/ 1.6	Integ 5 station hot mike, keyed or vox intercom	rotary intercom & xmtr & push-button audio selectors	5 inter-com, 4 or 5 xmtrs, 5 or 6 rcvrs	1.7/1.3/ 6.25/ 6.81	1 yr p&l	C506	No MKB. Separate pushbuttons for hdphn & spk selection. Voice activated intercom.
Mentor AP-1 $472	14/28/ 1.3	Audio isolation amplifiers	rotary X toggle R	7R	1.4/1.6/ 6.3/7.4	1 yr	N/A	Intercom option.
Narco CP-136 $850	14.28/ 2.25/ 1.75	Intercom capability, separate phone and speaker amps	lighted pushbutton	12 inc 4 inter-com	1.8/1.11 /6.25/ 8.27	1 yr, 2nd yr opt	C50b	Auto feature on transmit selects proper receiver
Narco CP-136M $950	14.28 2.25/ 1.75	Intercom capability, separate phone and speaker amps	lighted pushbutton	12 inc 4 inter-com	2.0/1.11 /6.25/ 8.27	1 yr, 2nd yr opt	C50b	Auto feature on transmit selects proper receiver
Northern Airborne AA90 $1,895	28/.5	5 xcvr & PA outputs, 6 rcvr inputs, 6 sta ICS, 5 alert inputs, live or keyed ICS, PIL/OBS. Tx capab.	rotary tx sel/ toggle rx sel	13	2.0/1.87 /5.75/9	1 yr	M.O.T.	Available in single or multiple, approved station versions. Multiple stations configured for EMS and ENG installations available.
Northern Airborne AA92 $2,395	28/.5	Indep pilot/observer, 4 xcvr & PA outputs, 6 sta ICS, plug comp w/AA90, live or keyed ICS, OAS acceptable	2 rotary tx sel/ 2 toggle rx sel	12	2.0/1.87 /5.75/9	1 yr	M.O.T. approved	The AA92 is designed for forestry and other applications (airborne law enforcement) where the observer requires independent access to communications radios.
Northern Airborne AA95 $2,195	28/.75	5 xcvr & PA outputs, 6 xcvr inputs, 6 sta ICS, 3 alert inputs, live or keyed ICS, pilot/observer tx capability	rotary tx sel/ toggle rx sel	13	2/1.87/ 5.75/9	1 yr	M.O.T. approved	Same as AA90 with additional capability of meeting strictest O.A.S. standards.
Northern Airborne AA10-010 $995	28/.5	2 xcur outputs/aux audio input, 3 hdset stations, ICS/RX vol controls.	toggle	3	1/ 1.09/ 5.75/ 6.32	1 yr	M.O.T. approved	Small, lightweight audio sys. Specially designed for piston helicopters. May also have as slave station controller with AA90/92 series controller.
Northern Airborne AA20-030 $795	28/.3 max	Radio monitoring, swept and/or 2 tone siren	toggle/ pushbutton	N/A	1.0/1.09 /5.75/8	1 yr	M.O.T. approved	Exceptionally small, self contained 30 watt loudhailer/siren system.
Northern Airborne AA22-160 $749	28/1.0	Radio monitoring, swept and 2 tone siren	rotary/toggle	N/A	1/1.09/ 5.75/ 6.32	1 yr	M.O.T. approved	Control unit for LoudHailer/Siren system. Used with up to 5 PA 110 amplifiers (see below) to provide up to 550 wt/output power.
Northern Airborne PA 110 $695	28/4.5	100w power output LoudHailer amp/max 550W avail.	N/A	N/A	4.5/N/A 6/4	1 yr	M.O.T. approved	Remote amp for external loudhailer system. Used in conjunction with AA20 for high power requirements.
Northern Airborne AMS40 $1,395	28/.5	Same as AA90/w Loran/VOR CDI transfer switch	rotary tx sel/ toggle rx sel	14	2/1.87/ 5.75/9.0	1 yr	M.O.T. approved	Standard version of AA90 custom control series. Comes w/DZUS mount adapter brackets and install kit.
Northern Airborne AMS41 $1,495	28/.5	Same as AMS40 except with VOX ICS	rotary tx sel/ toggle rx sel	14	2/1.87/ 5.75/9.0	1 yr	M.O.T. approved	Standard version of AA90 custom controlled series with keyed/live/ VOX ICS functions. Comes with DZUS mounting brackets and install kit.

Communications Audio Control Panels (continued)

Manufacturer/Model Price	Input(VDC/amps)	Features included	Type controls	Max. Inputs	Weight/Panel size (H)(W)(D)	Warranty	TSO	Remarks
Northern Airborne HSA 70 T.B.A.	28/N/A	Voice advisory of all operating systems status	rotary/toggle	40	10/87 5.75/8	1 yr	M.O.T approved	Voice annunciation of all cockpit and flight data against real time. Optional data storage of cockpit and flight information for maintenance records.
Northern Airborne AMS 42 $2,495	28/.35	Dual controller voice lock VOX ICS	rotary tx sel/ toggle rx sel	14	2/1.87 5.75/9.0	1 yr	M.O.T approved	Offers two independent channels of on w/VOX/keyed/live ICS supports pilot, co-pilot and 4 pass. Will work in both RH and LH pilot config.
Racal Acoustics B691	28/.5	Intercom facility, carbon or EM mic amps	toggle rx sel/ rotary tx sel (4 off) rotary volume controls	7	0.52/ 14.6 x 4.8 x 6.4 cm	1 yr	CAA UK release	Suitable as a station box for field & rotary wing acft.
Racal Acoustics B692	28/.5	Intercom facility, carbon or EM mic amps	toggle rx sel/ rotary tx sel (6 off) rotary volume controls	13	.72/14.6 x 6.7 x 6.4 cm	1 yr	C50b	Suitable as a station box for field & rotary wing acft.
Racal Acoustics B693	28/.5	Intercom facility, carbon or EM mic amps	rotary rx sel/ rotary tx sel (4 off) rotary volume controls	4	.85/14.6 x 5.8 x 8.9 cm	1 yr	CAA UK release	Individual volume controllers.
Racal Acoustics B8003	28/1.0	Selectable intercom net facility, carbon or EM mic amps	pushbotton selections, rocker volume controls	5	9.5/14.6 x 5.72 x 10.6 cm	1 yr	CAA UK release	Integral part of RA 800 digital audio mgmt sys.
Terra TMA 230 $695	14.28/ 1.5	Integ.MKB revr lites audio isolation and and spker amp	switch	5 xcvrs, 5 addt'l recei-vers, 5 unswitched	1.05/1.2 /6.25 5.5	3 yr	N/A extended	Auto feature on transmit selects proper receiver selectable intercom.

Communications Control Panels - Comm, NAV, ADF, ATC

Manufacturer/Model Price	Input (VDC/Amps)	Type Display	Features	Type Controls	Weight/Panel Size	Warranty	TSO	Remarks
Gables 811 Series $1,969	500ma	Gas, discharge	Active/PreSelect Freq. selection, transfer switch, fault display, memory capability remote/local op	Shutter wheel, push-button toggle	1.7lb/ 2.68"/ 2.28"/ 6.0	2 yr	C34, C35, C36, C37, C38, C40, C41, C66, C74	Compatible w/ARINC 429 remote tuning & 2/5 radio interfacing, micro-processor controlled, variations to faceplate layout available.
Gables 814 Series $1,470	400-450ma	N/A	Active/PreSelect freq. selection, transfer switch, fault display, memory capability, remote/local op	Shutter wheel, push-button toggle	1.7lb/ 2.68"/ 2.28"/ 6.0	2 yr	C34, C35, C36, C37, C38, C40, C41, C66, C74.	Interfaces with Collins Serial Data Bus (Proline II), micro-processor controlled, variations to faceplate layout available.

Communications HF Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range (MHz) No. of channels	Type of tuning/SSB	Installation	Weight	Panel Size (H)(W)(D)	Warranty/TSO	Remarks
Collins HF-230 $14,935	28/16.7 100	2.0-29.9999 280,000	Synthesizer Upper SB, lower SB, AM	Remote	24.4	1.87-5.75-5.48	1 yr C.51c, C.52c	1.2-duplex, compatible w/maritime radiophone net, add'l chan. 40 operator programmable, 1.76 ITU radiophone programmed; opt SELCAL comp; opt helicopter sys. w/PAC-230 probe ant coupler, $15,895, 23.2 lbs.
Collins HF-9000 $25,600	28/15.2 1.75	2.0-29.9999 280,000	Fiber. optic; USB, LSB, AM data	Remote	25.0	2.6-5.7-6.0	1 yr C.51d C.52d	Fiber optic interface, rapid-tune antenna coupler (.30 msec computer tuning); 99 operator programmable channels, 1.78 ITV radio telephone & emergency pre-programmed channels; 10/50 1.75 watts selectible power output; BITE
King/ Bendix KHF 950 $14,190	28V/15.9 4.75 (AM)*	2-30 MHz 99	Automatic LSB, AM, USB, phone	Remote, 4-box sys	20.2	2.5-7.7-7.0**	1 yr p&l Yes	**KCU-951 ctrl head. Choice of 2 panel-mounted ctrl heads. Price incl ctrl-disp unit, recvr exciter & power amp/coupler *150 watt output in SSB
King/ Bendix KHF 990 $14,850	28V/ 16.5 xmit 4.75 (AM)*	2-30 MHz 19	Automatic LSB, AM USB, phone	Remote, 4-box sys	21.8	2.35-2.193-5.5	1 yr p&l Yes	All 1.76 ITU maritime radiophone network chan programmed. 19 pilot programmable chan std. Price incl ctrl-disp unit, recvr exciter power amp & coupler *150 watt output in SSB

Communications In-Flight Telephones

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Receiver sensitivity (microvolts)	Control unit	Type of system Antenna	Weight	Warranty/TSO	Remarks
King/ Bendix KT 96 $2,165	14.3.0 10	12db S + N @ 1.0 uV (hard)	KT 96	Simplex KA55 incl KA 46A (blade opt)	4.5 w handset	1 yr p&l Yes	Price incl ant & install kit. KA 115 handset opt. Can be used thru KING audio panels w/ or w/o handset installed. Panel mounted. 28V req opt converter. Handset $405 extra.
Terra Jetfone I $4,610	27.5 0.4 rx 1.6 tx 10w	0.5 for 12db quieting	Cockpit control w 1 choice of handset	Full duplex rod & ball or blade opt	6.8 handset	5 yr extended N/A.	Jetfone I is a 12 channel manual air-to-ground telephone system.
Terra Jetfone II $2,920	27.5 0.4 rx 1.6 tx 8w	0.5 for 12db quieting	Jetfone II	Full duplex rod & ball or blade opt	4.25	5 yr N/A	Jetfone II is a 12 channel manual air-extended to-ground panel mounted telephone system.
Wulfsberg Flitefone VI $5,999	27.5 0.9 rx 0.4 tx 10w	0.7 for 10db quieting	New cockpit control with choice of 2 cabin ctr handsets	Full duplex rod & ball or jetblade	10.7	1 yr N/A	Flitefone VI is the first phone capable of "Direct Dial" telephone calls, when connected through an automated ground station. Also will be able to handle manual as well as Direct Dial calls. Full intercomm capability. HF compatable.

Communications VHF Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range No. of channels Spacing (KHz)	Features included	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aire-Sciences RT-551A $1,795	14/3.0 6w	118-135.97/ 720/25 KHz	Manual squelch	Panel	3.5 3.2 2.6 11.5	1 yr No	N/A
Aire-Sciences RT-661A $1,975	14/3.0 6w	118-135.97/ 720/25 KHz	Manual squelch	Panel	3.5 3.2 2.6 11.5	1 yr C37b C38b	N/A
Becker AR 2009/25	6-10w output	118-135.975/ 720/25 KHz	Single on/off switch, volume & squelch knobs & rotary freq selectors	Panel	1.5 kg	N/A	System doubles as an intercom between crews, operable to 15,000 ft.
Becker AR 2010/25	N/A	118-135.975/ 720/25 KHz	Built-in test and diagnostic circuitry	Panel	1.5 kg	N/A	Operable to 45,000 ft.
Collins VHF-20A $9,815	28/6.5/ 20w	118-135.975/ 720/25 KHz	2 storable channels, non-volatile memory, gas discharge display	Remote	6.8 5.15 2.5 6.5	1 yr C37b C38b	CTL-20 electronic ctrl included. VHF-20B, 118-151.975 MHz. $12,505
Collins VHF-21A $8,100	28/5.1/ 20w	118-135.975/ 720/25 KHz	8 storable channels, non-volatile memory, gas discharge display	Remote	5.8 2.65 2.38 5.59	1 yr C37c C38c	Directly repl VHF-20A; blt-in diagnos 2x5, serial dig tuning, incl CTL-22 serial tuning ctrl. VHF-21B 118-151.975 MHz, $10,605
Collins VHF-22A $8,100	28/5.1/ 20w	118-135.975/ 720/25 KHz	8 storable channels, non-volatile memory, gas discharge display	Remote	5.8 2.65 2.38 5.59	1 yr C37c C38c	Blt-in diagnos. 2x5, serial dig tuning, incl CTL-22 serial tuning ctrl. VHF-22B, 118-151.975 MHz. $10,605
Collins VHF-253 $2,955	10-32/ 4.5 @ 14V/ 10w	118-135.975/ 720/25 KHz	6 storable channels, EAROM non-volatile memory, LCD display	Panel	2" 1.5 6.5 12.1	1 yr C37b C38b	Rem freq. mgmt; visible act & stndby freq + 4 stored presets; opt broadband (VHF-255S), $3,555
Collins VHF-422A $9,015	28/5.1/ 20w	118-135.975/ 720/25 KHz	8 storable channels, non-volatile memory, gas discharge display	Remote	5.8 2.65 2.38 5.59	1 yr C37c C38c	Blt-in diagnostics; compatible only w/ CSDB or ARINC 429 controls; includes CTL-22 CSDB control. VHF-422B, 118-151.975 MHz, $11,665
CSI TR-720 $595	9.6/.039 (rec)/ 1w	118-135.975/ 720/25 KHz	Twist-off battery, 5 memory chan, FM noise squelch	Portable (handheld)	1.2 6.6 2.6 1.5	3 yr No	Synthesized; operates on all 720 COMM channels and 200 NAV channels. All accessories included
Dayton Granger 150-2A N/A	16.5/ 1w	121.5/123.1 2.25 KHz	Alkaline battery pack	Portable	5.5 11/ 5.5 1.5	1 yr No	Mounting bracket and floatation collar optional; self-contained microphone/speaker; waterproof.
Dayton Granger 150-3A N/A	16.5 1w	121.5/123.1 2.25 KHz	Water-activated battery pack	Portable	2.5 9.75 5.5 1.5	1 yr No	Mounting bracket and floatation collar optional; self-contained microphone/speaker; waterproof.
Dayton Granger 150-4A N/A	12.5 1w	VHF/UHF 4.25 KHz	Alkaline battery pack	Portable	2.5 9.75/ 5.5 1.5	1 yr N/A	Mounting bracket and floatation collar optional; self-contained microphone/speaker; waterproof.

Communications VHF Transceivers (continued)

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range No. of channels Spacing (KHz)	Features included	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
King/ Bendix KY 92 $1,840	14 or 28/ 4.5/7	118-135.975/ 720/25 KHz	Auto squelch	Panel	2.8/1.5/ 6.25/10.5	1 yr C37b, C38b	Crystal ctrl dig synthesized; *KA 39conv req for 28V operation. $245.
King/ Bendix KY 196 $2,605	28V/5/ 16	118-135.975/ 720/25 KHz	Disp act & stby freq	Panel	3.2/1.3/ 6.25/14.6	1 yr C37b, C38b	Act & stby freq simultaneously disp w/non volatile memory; 9 pilot-programmable chan for freq storage in non volatile memory. Opt. ext freq range avail.
King/ Bendix KY 197 $2,605	14V/6/ 7	118-135.975/ 720/25 KHz	Disp act & stby freq	Panel	3.2/1.5/ 6.25/14.6	1 yr C37b, C38b	Act & stby freq simultaneously disp w/non volatile memory; 9 pilot-programmable chan for freq storage in non volatile memory.
King/ Bendix KTR 908 $7,080	28V/7/ 20	118-135.975/ 720/25 KHz	Disp act & stby freqs. KFS 598 dig ctrl hd; flip-flop of act & stby freq	Remote	4.3/5/ 1.7/11.8	1 yr C37b, C38b	Opt KFS 593 gables ctrl hd; Remote flip-flop of freq. Opt VHF SELCAL capability avail. Opt cont head avail. For freq MSMT from KNS 660 and 9 pilot-programmable chan for freq storage. Opt ext freq range avail.
King/ Bendix KTR 9100 $8,200	27.5/ .8rx/8 tx 25	118-135.975/ 720/25 KHz	Auto squelch, Audio Leveling	Remote	13.0/Std ARINC 1/2 ATR sht case	1 yr C37b, C38b Yes	Does not include control head. Mounting rack and connector, $700.
King/ Bendix VCS-40A $9,305	13-33/ 5/ 20w	118-135.975/ 720/25 KHz	Dichronic disp, thermal protection, SELCAL & ACARS Compatible	Remote	6.7/3.1/ 2.5/2.5	2 yr/ C73c, C38c	ARINC 429 interface. Extended range tuning opt. Also tuned by FMS.
Narco COM-120 $2,195	14 or 28*/ 10 nom	118-135.975/ 720/25 KHz	Auto squelch, blt-in intercom	Panel	3.5/1.75/ 6.25/11	1 yr 2 yr opt C37b, C38b	Tx indicator lamp, mike & audio leveling. *28V req converter MP-10.
Narco COM-120/20 $2,295	14 or 28*/ 20	118-135.975/ 720/25 KHz	Auto squelch, blt-in intercom	Panel	3.8/1.75/ 6.25/11	1 yr, 2 yr opt/ N/A	Tx indicator lamp, mike & audio leveling. *28V req converter MP-20.
Narco COM-810 $2,150	14/.7 8 nom	118-135.975/ 720/25 KHz	Displays active & standby freq	Panel	2.9/1.5/ 6.25/11	1 yr, 2 yr opt C37b, C38b	Built-in intercom, remote transfer of active & standby freq.
Narco COM-811 $2,150	*28/3 8	118-135.975/ 720/25 KHz	Displays active & standby freq.	Panel	2.9/1.5/ 6.25/11	1 yr 2 yr opt/ C37b C38b	Built-in intercom, remote transfer of active & standby freq.
Narco HT-800 $595	9.5V/ 2w	118-135.975/ 720/25 KHz	LCD display keyboard entry 10 freq storage	N/A (handheld)	1.25/6.75/ 2.75/2	1 yr 2 yr opt No	incl NiCad battery, antenna, wall charger & earphone. Add'l accessories avail.
Terra TX 720 $945	14/1.0/ 5.0	118-135.975/ 720/25 KHz	Pushbutton channels, auto or manual squelch	Panel	1.25/1.6/ 3.2/9	3 yr ext. No	Synthesized, operates on all 720 comm channels. Includes installation tray and connectors.
Terra TPX 720 $495	12/14/ Rec. 060/ 2.5w	118-135.975/ 720/25 KHz	Standard mic & phone jacks, hi-low power	Portable (handheld)	2.1/9.5/ 3.27/1.9	3 yr ext. N/A	All metal case, all accessories opt. batteries & antenna incl.
Wulfsberg RT-118 $4,260	27.5/ .9 rx .65 tx 20w	118-138 MHz/ 800/25 KHz	30 pre-prog chan when used with C-1000 ctrl head	Remote RT w/std DZUS width control head	5.6/2.35/ 5.75/4.3	1 yr p&l C37b, C38b	Works with Wulfsberg flexcomm FM pkg.
Wulfsberg WT-200B $4,095	27.5/ .9 rx .65 tx 20w	118-151.975/ 1,360/25 KHz	N/A	Remote RT, panel-mounted control head	5.6/5/ 2.87/13.25	1 yr p&l	Compatible with any ARINC 2 out 5 tuning code.

Communications VHF/FM Mission Control Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range Spacing (KHz)	No. of channels	Features included	Component independence	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Wulfsberg RT-15 $2,490	27.5/1.2 rx 13.5/3.6 tx 10w	142-173.995 MHz 25 or 30 KHz	6	N/A	N/A	Remote	5.9/5 3.5/10.5	1 yr	N/A
Wulfsberg RT-16B $2,590	27.5/.7 rx 13.5/2.2 tx 10w	450-512 MHz 25 KHz	16	N/A	N/A	Remote	5.9/5 3.5/10.5	1 yr	N/A
Wulfsberg RT-19 $2,344	27.5/1.2 rx 13.5/3 tx 10w	29.7-49.99 MHz 20 KHz	6	N/A	N/A	Remote	5.9/5 3.5/10.5	1 yr	N/A
Wulfsberg RT-30 $4,309	27.5/1 rx 2.4 tx 10w	29.70-49.99 20 KHz	2,040	N/A	N/A	Remote RT with C-1000 Ctrl	7.5/2.35/ 5.75/4.5	1 yr N/A	Pre-program 30 frequencies. All 32 standard EIA tones standard in RT.
Wulfsberg RT-138 $4,144	27.5/1 rx 2.2 tx/ 10w	138-175.9975 2.5 KHz	14,400	N/A	N/A	Remote RT with C-1000 ctrl	7.5/2.35/ 5.75/4.5	1 yr N/A	Pre-program as many as 30 frequencies. All 32 standard EIA tones standard in RT.
Wulfsberg RT-450 $4,709	27.5/1 rx 2.2 tx/ 10w	450-470 MHz 12.5 KHz	1,600	N/A	N/A	Remote RT with C-1000 ctrl	7.5/2.35/ 5.75/4.5	1 yr N/A	Pre-program as many as 30 frequencies. All 32 standard EIA tones standard in RT.
Wulfsberg RT-7200 w/ 722A and install kits $6,636	27.5/1.5 rx 5.5 tx/ 10w	138-174 MHz 5 KHz	7,200	N/A	N/A	Remote mounted	9.3/5.19/ 5.12/58	1 yr N/A	Eight CTCSS tones avail. Control head C-722A
Wulfsberg RT-9600 w/C962A and install kits $6,489	27.5/1.5 rx 5.5 tx/ 10w	150-174 MHz 2.5 KHz	9,600	N/A	N/A	Remote mounted	9.3/5.19/ 5.12/58	1 yr N/A	Eight CTCSS tones avail. Control head C-962A
Wulfsberg C-1000 $2,290	N/A	N/A	N/A	FM transceiver ctrl head	N/A	N/A	2.6/3/ 5.75/7.5	1 yr N/A	Ability to thumbwheel control all available Flexcomm channels (RT-30, RT-138, RT-450 and RT-118).

Flight Control Autopilots

Manufacturer/Model Price	STC(s)	Stabilized in	Command turn/Preselect Tracking	Flight director interface	Single pilot IFR certification	Weight	Warranty	TSO	Remarks
Astronautics P/N 131500 $20,000-$38,500	500D 500E	Roll Pitch Yaw	Yes Yes No	No	No	N/A	1 yr or 1,000hrs	Yes	Modes include hover, altitude hold and heading hold in cruise and hover.
Astronautics P/N 131500-9 $25,000-$43,500	500D 500E	Roll Pitch Yaw	Yes Yes Yes	No	No	N/A	1 yr or 1,000hrs	Yes	Modes include altitude hold, hover, heading hold, nav coupling to VOR/ILS, Loran, etc.
SFENA PCS 200B $40,614-$57,364	206B series	Roll Pitch Yaw	Yes Yes Yes	Yes	Yes	57.50	1 yr	Yes	Yaw channel opt. system includes force trim. Features full time turbulance damping and atti. retention throughout total flight envelope and more.

Flight Control Autopilots (continued)

Manufacturer/Model Price	STC(s)	Stabilized in	Command turn/Preselect Tracking		Single pilot IFR certification	Weight	Warranty	TSO	Remarks
SFENA FCS 200L $47,380-$64,130	206L series	Roll Pitch Yaw	Yes Yes Yes	Yes	Yes	40-50	1 yr	Yes	Yaw channel opt; systems includes force trim. IFR kit avail. for $52,000 plus avionics.
SFENA FCS 90 $78,940	222U-T or B series	Roll Pitch Yaw	Yes Yes Yes	Yes	Yes	45-60	1 yr	Yes	Includes auto pitch and roll trim, heading select, altitude hold, beep trim, force trim and primary altitude horizon.
SFIM AP 157 On Request	SA 330	Roll Pitch Yaw	No	Yes	No	20	1 yr or 1,000hrs	Yes	Modes include altitude, turn coordination.
SFIM AP 155D On Request	AS 365N	Roll Pitch Yaw	Hdg	Yes	Yes	45	2 yr or 2,000hrs	Yes	Duplex, fail passive, fail operational integrated preflight test.
SFIM AP 155P On Request	AS 332	Roll Pitch Yaw	Hdg	Yes	No	21	1 yr or 1,000hrs	Yes	Duplex, fail passive, fail operational integrated flight test standard on AS 332.
SFIM AP 85E3 On Request	AS 350	Roll Pitch Yaw	Hdg	No	No	15	2 yr or 2,000hrs	Yes	Modes include altitude, A/S Hdg select, turn coordination.
SFIM AP 85T31 On Request	AS 355 AS 350	Roll Pitch Yaw	Hdg	Yes	No	40-50	2 yr or 2,000hrs	Yes	Modes include altitude, A/S Hdg turn coordination. Two axis version available.
SFIM AP85T31 light 2 Axis $50,240	350 355	Pitch Roll	Hdg SEL	Yes	No	15	2 yr or 2,000hrs	Yes	STC's by AHC. Retrofit kit avail. from AHC. Auto-trim attitude and airspeed hold options.

Flight Control Flight Directors

Manufacturer/Model Price	Input (VDC/amps)	Features included	STC(s)	Display type/HSI Autopilot interface	Single pilot IFR/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Astronautics P/N 131810 On Request	115VAC, 400 Hz	2 Cue F/D, hdg hld, VOR/ILS, BC, alt hld, GS RNAV, Standby & go-around	S-76	ADI 5" HSI 5" No	No N/A	4 3-5 N/A	1yr or 1,000hrs Yes	Computer & mode select panel is in one unit & is panel mounted. Cyclic pitch & roll.
Astronautics P/N 129855 On Request	115VAC, 400 Hz	3 Cue F/D, hdg, VOR/ILS, man & auto decel, AS hld, alt hld RNAV, descent, & go-around	S-76	ADI 5" HSI 5" No	No N/A	6 5-3-6	1yr or 1,000hrs	Cyclic pitch & roll, collective pitch.
SFENA FDS 90 $32,604	28-1	Digital, tracks/ captures HDG, V/L BC, ALT, GS, IAS, DC*	206B Ser. 206L Ser. 206B 222U/T	4" ADI 5 cue any Yes	Yes panel	4" ADI, 4" Cntrlr 4-4-9.2 5-5-9.2	1yr Yes	*DC deceleration available with 222B & 222U/T only.

Flight Control Integrated Flight Control Systems

Manufacturer/Model Price	STC(s)	Single pilot IFR Command turn	Stablization in	Preselect capability	Tracking capability (modes)	Flight director interface	Weight/Warranty/TSO	Remarks
SFENA **FCS 200/** **FDS 90** **$79,984-** **$96,734**	206B Series 206L Series	Yes/ Yes	Roll, Pitch Yaw	Yes	HDG, V/L, BC, ALT, GS, VS, IAS	Yes	65 1 yr Yes	Yaw channel opt, single pilot IFR opt, IFR appx $18K-32K
SFENA **AFCS 90** **$94,870**	222B 222UT	Yes/ Yes	Roll, Pitch Yaw	Yes	HDG, V/L, BC, ALT, GS, VS, IAS, DC*	Yes	55 1 yr Yes	Collective channels opt, Decel mode std
SFIM **AFCS 155** **On Request**	AS 332 AS 365N	Yes/ Yes	Roll, Pitch Yaw, Collective	HDG, CRS, VS, IAS, rad alt, hov ht	HDG, AS, ALT, VS, VL, PC, GS, HOV, NAV, radalt, go-round, fly up	Yes	65 90 day Yes	AP 155 along with digital 4-axis FDC 155, or FDC 85. If fourth axis not req'd, FDC 85, P4 for CAT II approaches
SFIM **AFCS T51** **On Request**	AS 555	Yes/ Yes	Roll, Pitch Yaw	HDG, CRS, VS	HDG, AS, ALT, V/S, VL, BC, GS, Nav, turn coordination, go-around	Yes	80 2 yr Yes	N/A
Sperry **SHZ 109-2** **On Request**	AB 109, AB 109-2	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, ALT, A/S	AD-500 FZ-702	Varies 1 yr Yes	TC by Agusta
Sperry **SHZ-212-2** **On Request**	Bell 212	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	Astronautics FZ-702	Varies 1 yr Yes	STC held by Associated Air Ctr
Sperry **SHZ-212-3** **On Request**	Bell 212	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT, VLF Omega	Astronautics FZ-702	Varies 1 yr Yes	Retrofit kits avail. STC by Sperry incl auto-trim
Sperry **SHZ-222** **On Request**	Bell 222A Bell 222B	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	GH-222 FZ-702	Varies 1 yr Yes	TC by Bell
Sperry **SHZ-350D** **On Request**	AS-350D	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	AD-550 FZ-702	Varies 1 yr Yes	STC by Sperry
Sperry **SHZ-355F** **On Request**	AS-355F-1	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	AD-550 FZ-702	Varies 1 yr Yes	Retrofit kits avail. STC by Sperry
Sperry **SHZ-360** **On Request**	SA-360	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	GH-14 or AD-650 FZ-702	Varies 1 yr Yes	STC by Aerospatiale
Sperry **SHZ-365C** **On Request**	SA-365C	Yes/ Yes	Roll, Pitch, Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	AD-650 FZ-702	Varies 1 yr Yes	STC by Heliflight
Sperry **SHZ-412** **On Request**	Bell 412	Yes/ Yes	Roll, Pitch, Yaw	HDG	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT	Astronautics FZ-702	Varies 1 yr Yes	TC by Bell
Sperry **SHZ-760** **On Request**	S-76A	Yes/ Yes	Roll, Pitch Yaw	HDG	HDG, VOR, LOC, GS, Loran, RANV, VLF Omega, A/S, ALT	AD-650 FZ-702	Varies 1 yr Yes	STC by Heliflight
Sperry **SPZ-7000** **On Request**	SA-365N, S-76A/ S-76B Bell222UT	Yes/ Yes	Roll, Pitch, Yaw, Collective	HDG, ALT, A/S, V/S	HDG, VOR, LOC, GS, Loran, RNAV, A/S, ALT, VLF Omega	AD650, EFIS FZ-700	Varies 1 yr Yes	Dig. 4-axis sys, retrofit kits avail. EFIS opt. on S-76, 365N. STC by Sperry on S-76, 365N. STC held by HeliDyne on 222UT

Electronic Flight Instrument Systems Display Units

Manufacturer/Model Price	Input (VDC) Power (watts)	Display type	Required maintenance interval	External fans	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
King/Bendix **ED102A** **$17,640**	18-55/ 55	Shadow Mask Color CRT	N/A	Not required	14/6.25/ 6.25/14	2 yr/ Yes	Units electrically interchangable, MFD displays differ only in size, dual stroke/raster provides solid symbols and bright displays, dispatch capability with single component failure. Price incl. installation kit, mounting tray and inclinometer.
King/Bendix **102D** **$13,250**	18-55/ 45	Shadow Mask Color CRT	N/A	Not required	9.5/4.8/ 5.1/10.7	2 yr/ Yes	Units electrically interchangable, MFD displays differ only in size, dual stroke/raster provides solid symbols and bright displays, dispatch capability with single component failure. Price incl. installation kit, mounting tray and inclinometer.
King/Bendix **102E** **$16,420**	18-55 45	Shadow Mask Color CRT	N/A	Not required	9/4.8/ 5.1/10.7	2 yr/ Yes	Units electrically interchangable, MFD displays differ only in size, dual stroke/raster provides solid symbols and bright displays, dispatch capability with single component failure. Price inc. installation kit, mounting tray and inclinometer.
Sperry **ED-600** **On Request**	28/ 65 max	High resolution CRT	N/A	Recommended	9/4.7/ 5.1/10.4	Standard/ Yes	High resolution, stroke/raster, interchangable, pilot and auto dim.
Sperry **ED-800** **On Request**	28/ 65 max	High resolution CRT	N/A	Recommended	10/5.1/ 6.1/10.4	Standard/ Yes	High resolution, stroke/raster, interchangable, pilot and auto dim.

Electronic Flight Instrument Systems Symbol Generators

Manufacturer/Model Price	Input (VDC) Power (watts)	NTSC/FLIR interface	Video outputs per SG	Aircraft specific software required	External fans	Mounting	Weight/Size (H)(W)(D)	Warranty/TSO	Remarks
King/ **Bendix** **SG101A** **$24,160**	18-55/ 95	Yes	5	No	Not Required	Front	12.5/8/ 6/11	2 yr/ Yes	ARINC 429 interface. Software certification industry's most advanced. Price incl. mounting rack and connector kits.
King/ **Bendix** **SG101B** **$26,770**	18-55/ 95	Yes	5	No	Not Required	Rack/DPX	15.0/8/ 6/12.62	2 yr/ Yes	ARINC 429 interface. Software certification industry's most advanced. Price incl. mounting rack and connector kits.
Sperry **SG-700** **On Request**	28/ 70 max	No	2	No	Not Required	Tray	16/9.7/6 4.9/15.8	Standard/ Yes	Analog interface. Custom helicopter symbology.
Sperry **SG-705** **On Request**	28/ 70 max	No	2	No	Not Required	Tray	16/9.7/6 4.9/15.8	Standard/ Yes	Analog/digital interface. Dual vector generators.

Navigation Area Navigation Systems

Manufacturer/Model Price	Input (VDC/amps)	Frequency range No. of channels	No. of waypoints/ Waypoint entry/ Max nm	Type display	VOR/DME integration	Extra functions	Interface	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins ANS-351 $4,715	14.28/ 1.3 @ 14V	VOR/DME interface	8/ Dial/ 199.9	Incand	VOR w/video output, 40 mv/nm analog DME	Gnd spd, time to WP, enroute appr modes	AP, HSI, RMI (built-in VOR converter)	5.5/ 1.75/ 6.25/ 12.25	1 yr/ C.96c	Pos check briefly returns sys to raw data; digital brg TO/FR WP on VIR-551
Foster RNAV612 $6,900- $9,500	11-32/ .55	VOR/DME interface	9/ Knob	incand filament	Yes	Range monitor std. Auto WP blt-in TSO'd VOR/LOC Conv	All NAV & DME	5/ 5-ATI 10.04	1 yr/ C.96c C.40a	NAV 1/NAV 2 switching, press pos disp, slant rng corr, RMI drive
Foster RNAV612A $4,550 $7,150	11-32/ .55	VOR/DME interface	4/ Knobs	incand. filament	All VOR & DME/ Yes	Blt-in TSO'd VOR/LOC Conv	All VOR/DME	5/ 5-ATI/ 10.04	1 yr/ C.96c, C.40a	NAV 1/NAV 2 switching, press pos disp, slant rng corr, RMI drive
King/Bendix KNS 80 $7,015	14 or 28V/ 2.1 (14), 1.1 (28)	199/ 200	4/ Rotary, Pushbutton	Dig, gas discharge CDI, HSI	Incl nav, GS & DME	Gnd spd & time to WP, DME hld	FD, AP, HSI	6/ 5/ 6.25/ 12	1 yr/ No	VOR parallel & RNAC appr mode; incl 200 chan nav, 40 chan GS, 4 WP RNAV, 200 chan DME
King/Bendix KNS 81-10 $5,365	14 or 28V/ 1 (14), .5 (28)	108/117.95 200	10 incl freq/ Rotary, Pushbutton	Dig, gas discharge	Incl nav & GS, req KN65, KDM706 or KN62A DME	Disp all WP parameters simult; radial from WP or VOR	FD, AP, HSI	5/2/ 6.3/ 11.5	1 yr/ Yes C.54c, C.96c, C.40a	VOR parallel mode, opt interface w/ add'l GC-581A $255
King/Bendix KNS 81-50 $8,920	14 or 28V/ 1 (14), .5 (28)	199.9/ 454	10/Rotary, Pushbutton	CDI, HSI dig, gas discharge	Incl VOR & GS, req KTU-709 Tacan	Disp all WP parameters simult disp radial from VOR or WP, also can use Tacan for brg input	FD, AP, HSI	5/2/ 6.5/ 11.5	1 yr/ C.54c, C.96c, C.40a	Operates using either VOR or Tacan brg, model w/ GC-581A $255
Narco NS-801 $2,595	14.28/ 1.2, .6	108-117.95/ 200	8/Rotary, Pushbutton	Gas dis, CDI HSI	Incl VOR and GS	Auto load of pres pos, non-vol memory	HSI/DME 891/AP, FD	2.9/ 2.25/ 6.58/ 11	1 yr/ 2 yr opt. N/A	Interfaces w/Narco DME 190, 195, 890 IDME 891 and King KN-64, KN-62A
Narco NS-800 $4,595	11-32/ 1.2 @ 14VDC	108-117.95/ 200	8/Rotary, Pushbutton	Gas dis	Incl NAV, GS and DME	Displays WP parameters along w/ dist, gdspd, time to WP, radial to or from WP	FD, AP, HSI	4.4/ 2.95/ 6.25/ 11.55	1 yr/ C.40b, C.96c, C.54c	VOR parallel and RNAV mode, 100 watt, 200 channel NAV and DME, 40 channel

Navigation Automatic Direction Finders

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (KHz) No. of bands	Type of tuning	Features included	Display features	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins ADF-60A $9,375	28/.6	190.0-1749.5/ 6	Digital	Stores 2 chan non-volatile memory; gas/ disp	N/A	Remote	6.7/ 5.13/ 2.5/ 6.5	1 yr/ C.41c	Coherent detection, combined loop-sense ant incl (ANT-60A); dual ant opt (ANT-60B); 5-wire or sin/cos RMI output avail. incl CTL-60 electronic ctrl, opt CTL-62 w/CAD-62 adapter for serial dig tuning & 6 stored chan.

Navigation Automatic Direction Finders (continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (KHz) No. of bands	Type of tuning	Features included	Display features	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins **ADF-650A** **$3,535**	14, 28* 1.0 (14V)	200-1799 N/A	Digital, continuous	N/A	Rotating azimuth int light	Panel	6.0 1.75 6.25 10.8	1 yr C41c	Incl ANT-650A combined loop sense ant & IND-650A indicator; *Adapter, $85.
Collins **ADF-462** **$9,205**	28 0.6	190-1799 6	Digital	6 storable channels non-volatile memory, gas disp	N/A	Remote	8.0 2.65 2.98 9.99	1 yr C41d	Bit in diagnostics, compatible only with CSDB or ARINC 429 controls; digital signal processing, 2182 KHz emergency frequency, incl CTL-62, CSDB ctrl and ANT-462A antenna; ANT-462B dual antenna optional
King/ **Bendix** **DFS-63A** **$11,165**	10-55 6	190-1860 5 KHz spacing	Gray code; ARINC 429	ADF 1:r steering to HSI	Dig brg Dichroic disp	Remote	11.9 5.1 2.5:2.9	2 yr C41c	Combined low drag ADF loop & sense antenna
King/ **Bendix** **KR 86** **$2,345**	14.28* 5	200-1750 1	Mechanical	Bit in test button & BFO	Indicator bit in face plate	Panel	6.6 2.6 6.25 9.05	1 yr p&l No	Many install kits avail, price incl ant & install kit; *Requires 28V kit. Tapered to fit top of panel
King/ **Bendix** **KR 87** **$5,235**	11-55 .85 (14V) .42 (28V)	200-1799 5	Electronic	Stdby freq fit & elapsed timers incl	Dig disp of act & stdby freq	Panel Sep 5" ind	6.7" 1.98 6.51 11.25	1 yr p&l C41c	Price ctrl K122" ind. comb sence & loop ant. & install kit, non-vol memory, coherent detection bit-in for greater range
King/ **Bendix** **KDF 806** **$7,550**	11-55 1.5	190-1799 5	Electronic	Coherent detect for more range	Dig disp of act stby freq w flip-flop ufer button	Remote	7.40 2.25 2.095 7.5"5	1 yr p&l C41c Class A	Incl install kit, ant & dig ctrl head. No ind. Non-vol mem. Remote flip-flop avail. Strappable to rec 2182 KHz. Act freq can be tuned direct. Opt ctrl head for KNS 660 freq MGMT and 9 pilot prog channels for freq storage
Narco **ADF-841** **$2,795**	11.8 2.5.4	200-1799	Electronic	Combined loop-sense ant	Stdby freq fit & elapsed timers inc	Panel w sep 5" indicator	2.7" 1.9 6.25 10.25	1 yr 2 yr opt C41c Class A	Coherent detection for greater range

Navigation Distance Measuring Equipment

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	No. of channels	Type of display	Effective distance coverage Speed readout/TTS	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins **DME-40** **$15,215**	28.1 500 (40 mv nm)	252	Gas discharge	0-250 0-999 0-99	Remote	8.1 1.66 5.56 6.59	1 yr C66a	Distance accuracy: +/- 0.1nm or 0.01%; ARINC 568, pulse pair, incl IND-40 ind.
Collins **DME-42** **$11,860**	28.8 500 (40 mv nm)	252	Gas discharge	0-500 0-999 0-120	Remote	6.2 1.66 5.56 6.59	1 yr C66b	Disp ID: 2-4 letters, incl 2-digit code diagnos, directly repl DME-40, trks 5 chan at once if used w CTL-52 & IND-42A (CTL-52 ctrls nav rcvr); serial dig, 2n/5 tuning, dig signal processing, echo monitor, ARINC 568, serial dig, incl IND-42A ind.

Navigation Distance Measuring Equipment (continued)

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	No. of channels	Type of display	Effective distance coverage Speed readout/TTS	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins DME-450 $5,740	14 or 28V 2.2a (14V) 100w (40mv/nm)	200	Incand filament	0-199.9 0-999 0-120	Remote	6.1 1.35 4.5 5.5	1 yr C66a	Dist accuracy: +/- 0.1nm or 1%; incl ANT-451 ant & IND-450 ind
Collins DME-451 $6,960	14 or 28V 2.2a (14V) 100w (40 mv/nm)	200	Incand filament	0-199.9 0-999 0-120	Remote	6.4 5.26 5.26 5.4	1 yr C66a	Dist accuracy: +/- 0.1nm or 1%; bit-in timer based on GMT clock; incl ANT-451 ant & IND-451 ind
Collins DME-442 $13,280	28 0.8 400	252	Gas discharge	0-400 0-999 0-120	Remote	6.2 1.66 4.38 6.59	1 yr C66b	Tracks three channels simultaneously when used with CTL-32, IND-42A; decodes and displays station ident; bit-in diagnos; compatible only with CSDB or ARINC 429 ctrls and displays; digital signal processing; echo monitor; includes IND-42A
King/ Bendix KMS-44 $15,495	18-44 " 4.25	252	Dichroic disp	0-400 0-999 0-19.99	Remote	" 1.5 5.2 2.5	2 yr C66b	Triple scanning DME; disp N1 & N2 distance at once; outputs for ARINC 568, 429, 40 mv/nm & 40 bit serial FMS tuneable
King/ Bendix KDM 706 $9,700	14 or 28V 1 " (14) 0.8 (28) 250	200	Dig. gas discharge	489 0-999 0-99	Remote	5.5 5.25 2.5 11.8	1 yr C66a	Incl KDI 572 ind; KDM 706 will drive DME of KPI 553A HSI and opt KDI 573 slaved ind
King/ Bendix KDM 706A $10,015	28V/0.75 250	252	Dig. gas discharge	489 0-999 0-99	Remote	6.5 5.5 10	1 yr C66b	KDM 706 w Arinc 429 & 568 interface
King/ Bendix KDM 706O $11,027	115(AC) 5 250	252	Not incl	489 N/A N/A	Remote	11.6 1.2 ATR short	1 yr C66b	Arinc 568 replacement unit, no ind. Mounting rack and connector, $880
King/ Bendix KDM 70"0 $12,640	115 (AC) " 250	252	Not incl	489 N/A N/A	Remote	16 " 1.2 ATR short	1 yr C66a	Arinc 521D replacement unit, no ind
King/ Bendix KN 62A $3,850	11-33 14V-1.0" 28V-535 100	200	Simultaneous dig disp of dist, GS & TTS	0-389 0-999kts 0-99 min	Panel	2.6 1.5 6.312 12.258	1 yr p&l C66a	All solid state; int & remote chan capability
King/ Bendix KN 63 $5,850	11-33 14V-1.21 28V-.60 100	200	Simultaneous disp dist, GS & TTS	0-389 0-999 0-99 min	Remote	5.6 1.35 4.5 6.47"	1 yr p&l Yes	All solid state; incl antenna & install kit. Accepts slip code, BCD and 2x5 channeline formats
King/ Bendix KN 64 $1,855	11-33 14V-1.0"1 28V-.625 35	200	Simultaneous dig disp of dist, GS & TTS	0-389 0-999 0-99 min	Panel	2.6 1.5 6.312 12.258	1 yr p&l No	Solid-state; internal & remote channel capability. Price incl ant & install kit
King/ Bendix KTU 709 $14,790	14 or 28V 1 " (14) " 5 (28) 250	252	Dig. gas discharge	489 04999 0-99	Remote	5.8 6.25 3.11.8	1 yr C66b	Tacan brg info may be disp on conventional CDI/HSI to offer independent, non-VOR based brg info. Incl KDI 572 disp DIST, GS, TTS
Narco DME-890 $2,150	11-32V 1.4a 25w nom	200	Digital, gas discharge	160 600 kts 0-99	Panel	5.9 1.5 6.25 11	1 yr 2 yr opt No	Remote channeling capability; simultaneous display of DIST, GS & TTS. Price incl ant
Narco DME-891 $2,195	11-32 1.4 25w nom	200	Digital, gas discharge	160 600 kts N/A	Panel; 5" inst hole	2.6 3.19 3.19 9.14	1 yr 2 yr opt No	Incl VOR/ILS ind. & marker lights. Compatible w Narco MK-12D, NAV-825, NS-801 RNAV. *Package price with MK-12D, $4,995

Navigation Glideslope Receivers

Manufacturer/Model Price	Input (VDC/amps)	No. of channels	Receiver interface	Display interface	Weight	Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins GLS-350 $1,115	14.0/.7	40	VIR-351	HSI, CDI	2.0	5.1/ 10.7	1 yr C34c	N/A
King/ Bendix KN 75 $1,025	14.2-V/.72	40	"Universal" chan capability	HSI,CDI	1.6	Remote	1 yr p&t/ Yes	Remote mounted. Universal channel allows channeling of KN75 from 2x5. KING slip code

Navigation Horizontal Situation Indicators

Manufacturer/Model Price	Functions	Display/Rcvr RNAV interface	Flight director interface A/P interface	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aeronetics 8000 $7,010	L/R dev, T/F, Nav flag, GS dev, GS flag, OBS, HDG flag, card	N/A Std ARINC input	AC synchro output AC synchro output	2.9 5.21 5.21 8	2 yr C6c, C34c, C36c, C40b	Price incl remote DG & flux valve. 8000 sys features "Automatic emergency mode" operation
Aeronetics 8131 $4,400	L/R dev, T/F, Nav flag, GS dev, GS flag, OBS, HDG card, HDG flag	N/A Std ARINC input	AC synchro output AC synchro output	2.8 5.21 5.21 8	2 yr C6c, C34c, C36c, C40b	Accepts standard HDG input from gyro
Aeronetics 9130 $7,080- $9,120	L/R dev, T/F, Nav flag, GS dev, GS flag, OBS, HDG flag, HDG card	Some models digital incand disp of CRS & DME Std ARINC	AC synchro output AC synchro output	4.5 5.97"S 5.97"S 8.120	2 yr C6c, C34c, C36c, C40b, C66a	Accepts standard ARINC gyro inputs from 9100 gyro or other standard gyro. DME accepts ARINC 568 or King serial
Astronautics P/N 125810 On Request	Disp hdg, 2 brg, hdg select course, DME, GS	HSI 5" Yes	Yes Yes	6.5 4.25 5.75	1 yr 1,000 hrs Yes	Typical of 4" HSIs, many others available
Astronautics P/N 127450 On Request	Disp hdg, 2 brg, hdg select course, DME, GS	HSI 4" Yes	Yes	7.12 4.15 4.15 8.94	1 yr 1,000 hrs Yes	Typical of 5" HSIs, many others available
Astronautics P/N 132570 On Request	Disp hdg, 1 brg, hdg select course, DME	HSI 5" Yes	Yes Yes	6.5,25 5.25 8.60	1 yr 1,000 hrs Yes	Typical of 5" HSIs, many others available
Collins EHSI-74 $20,050 $21,565	VOR/LOC, GS/HGD/VLF Omega, Loran	Color CRT Yes	HDG, Course error Yes	10.2 4.2 4.2 9.5	1 yr Caps avail C6c, C40b, C52a	More than 750 systems in operation. Avail in several I/O configurations. Rose, ARC & Map modes
King/Bendix KCS 55A $6,505	VOR/GS/LOC	Deviation needle: KNS80, 81, KN53, KX155, 165, 175B, KNR634 Yes	Yes Yes	9.4 5.25 5.25 7.5	1 yr p&t Yes	Incl remote electric gyro. Opt helicopter HSI avail w xtra GS dampening. Opt HSI avail w heading bootstrap. Price incl total slaved compass system
King/Bendix KPI 552 $10,145	VOR/GS/LOC	Deviation needle: KNR665A, 634; KN 53 KX155, 165, 175B, KNS 80, 81, 81-30 Yes	Yes Yes	5.0 4.75 6.25 8.75	1 yr p&t Yes	Requires remote compass input. Flavors avail with or without blt in RMI pointers

Navigation Horizontal Situation Indicators (continued)

Manufacturer/Model Price	Functions	Display/Rcvr RNAV interface	Flight director interface A/P interface	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
King/Bendix KPI 552B $11,725	VOR/GS/LOC	Deviation needle; same as KPI 552 but incls 3 wire ("XYZ") course slew for use w/ nav mgmt sys, such as KNS 660	Yes Yes	5.0 3.75 3.25 7.5	1 yr p&l Yes	Requires remote compass input. 3 wire ("XYZ") RMI only.
King/Bendix KPI 553A $12,250	VOR/GS/LOC	Deviation needle; dig DME dist, grd spd, TTS, radar alt; KNR 665A, 634, KN 53, KX 155, 165, KNS 81, 81-30 Yes	Yes Yes	5.5 4.25 4.25 8.75	1 yr p&l --Yes	Incl dig readout dist, grdspd, TTS or radar alt; req remote compass input.
King/Bendix KPI 553B $14,075	VOR/LOC/GS RMI/Long range NAV	Deviation needle; dig DME, dis, grdsp TTS, radar alt; KNS 660	Yes Yes	5.5 4.25 4.25 9.25	1 yr p&l Yes	Requires remote compass input; expanded dis readout for long range navigation system.
Sperry RD-450 On Request	VOR/LOC/GS slaved gyro	N/A Yes	Yes Yes	3.6 4.06 4.06 8.66	1 yr Yes	Local ctrl, comparator monitor output.
Sperry RD-550 On Request	VOR/LOC/GS slaved gyro	Dig DME, crs, RMI pointer ARINC 561, 568, DME	Yes Yes	5.9 4.25 4.25 8	1 yr Yes	Local & remote ctrls avail. RMI pointer, digital dist. and course display.
Sperry RD-650 On Request	VOR/LOC/GS slaved gyro	Dig DME, crs, RMI source sel; NAV source annun; ARINC 561, 568, DME	Yes Yes	7.3 5.4 25.9	1 yr Yes	Local & remote ctrls avail. RMI pointer, digital dist. and course display, nav. Source annunciators.

Navigation Long Range Navigation Systems

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Offshore Advanced Navigation 7000 $14,300	28 VDC 1.5a	100 KHz	200 Fiber optic	Cross chain Ops, Flt. Plan computer, Auto Wind Computation, Pseudo Vortac mode, 99 route storage	5 Remote	20.4 5 5.75 6.50	1 yr Yes C60a	IFR Cert enroute & terminal for NAS incl Alaska. EFIS compatible.
Arnav R-60 $9,495	10-35/1	100 KHz	200 Alpha-numeric	All chains, brg/dis btwn WP, OBS mode, pres pos, dis/brg, trk/dtk, GS/ETE, auto MAGVAR, CDI sens, X range sel, 200 WP	Rcvr, ctrl disp, preamp, ant Ctrl disp panel	CDI: 2.06 REC: 5.5*5 5.75 5.75 5.12	18 mth pend	Designed for helicopter install. IFR cert pend. VFR ext range mode opt for marginal Loran areas. Alpha/num disp.
Arnav R-40 $4,995	10-35/1	100 KHz	200 Alpha-numeric	All chains, rt plan, OBS mode, pres pos, grd trk/spd, dis/time, xtrk/dtk, brg/dis, partrk, auto MAGVAR, CDI sens, hld mode 200 WP, alpha/num dis.	Unit/preamp/antenna/panel	4.8/3.25/6.25/10.7	18 mth/ Yes	IFR cert, VFR ext range mode opt for marginal Loran areas; NMS opt. Interface to silver fueltron.

Navigation Long Range Navigation Systems (Continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Arnav R-21 DMS $3,995	10-35/1	100 KHz	150/LCD	Incl DMS, NMS, MSA, MESA Brg/dis to WP, all chains GS/ETE, TK/DTK, auto MAG/VAR, int CDI 200 WP, alpha/num dis	Unit, preamp ant/panel	5.1/3.25/ 6.25/10.7	18 mth/	DMS provides 10,000 airports, VOR's & NDB's in permanent memory accessed by keying in 3 letter FAA designator Also gives ATIS, tower or unicom and navaid freq, airport and navaid elevation, whether airport is IFR or VFR.
Arnav R-21 NMS $3,195	10-35/1	100 KHz	200/LCD	DMS, and extended rge are opt. R-21 NMS unit incl wind aloft, true airspeed absolute fuel rge and remote ranging, Brg/Dis to WP, all chains, GS/ETE, TK/DTK auto MAG/VAR, int CDI, 200 WP, alpha/num disp	Unit, preamp, ant/panel	4.6/3.25/ 6.25/10.7	18 mth/	R-21 model also avail w/ out NMS (winds aloft, true airspeed, absolute fuel range and remote ranging) at $2,795 list price
Canadian Marconi CMA-734 $32,421	18-32/2	10.2, 11.3 13.6 KHz + 15-30 KHz/VLF	4000/ 2-line Alpha-numeric	All norm nav parameters displayed, autopilot coupling & XTRK dev outputs std, perm memory keep alive for WP & GMT/DATE clock	2 + ant/Remote & panel	20.5/4.5/ 5.75/6.125	48 mth/ Yes	SAR, Co-rts, etc., stores up to 99 WP/rt RPU has internal VLF TAS input std but not required. Withstands high vibra level, allowing hard mount in most helicopters
Canadian Marconi CMA-734 $22,440	18-32/ 1.5	10.2, 11.3 13.6 KHz + 15-30 KHz/VLF level	891 (99x9)	All norm nav parameters displayed, autopilot coupling & XTRK dev outputs std, perm memory keep alive for WP & GMT/DATE clock	2 + ant/Remote & panel	17.7/4.75/ 5.75/2.375	48 mth/ Yes	Stores 99 rts of 9 WP ea, RPU has int. VLF, withstands high LCD vibra allowing hard mount in most helicopters, wide angle CDU TAS input std not req, ded high contrast display
Collins LRN-85T $47,572	28/5	All VLF/ Omega	99/ Dig. CDI	Date, ETA, GMT, pres pos lat/long storage, brg, dist TTW, desired trk, xtrk wind non-volatile WP memory, VOR DME offset, API & r deviation, ARINC BCD output grd spd & dist	3/Remote	4.1/3.4/5/ 5.75/6.25	1 yr/ C/94	Omega unique for fast sync & all freq for 250 nm relane; freq agile VLF SB trkg
Foster RNC601 $7,400	18-32/ 75	N/A	100/LED	VORTAC based long rng nav w/stor cap for 26 flight plans, 100 WP & 250 pilot-programmed WP ref. Incl VNAV advisory	1/Panel	3.25/ 3/ATI/ 10.04D	1 yr	Interfaces w/most VOR/ DME, HSI/CDI & autopilot & flight directors. Can be upgraded to LNS616
Foster LNS616 $15,225	18-32/ 1.25	All Loran -C stations & VORTAC interface	100/LED	Stores 26 flight plans, 100 WP and 250 pilot-programmed WP ref. Incl VNAV advisory	2/Remote	9.25/ 3/ATI/ 10.04D	1 yr/ C/40b, C/56c, C/66b, C/60a	Uses VORTAC, Loran-C or both to derive pos info. Interfaces w/most VOR/DME, HSI/CDI & autopilot & flight directors. Can be upgraded to LNS616A.
Foster RNC601A $12,700	18-32/ 75	N/A	234/LED	Storage cap for 26 flight plans, 234 WP and 150 pilot-programmed WP ref plus all U.S. VOR, VOR/DME & VORTAC's by lat/long, freq, mag variation and elevation	2/Remote	3.25/ 3/ATI/ 10.04D	1 yr/ C/40b, C/56c, C/66b, C/60a	VORTAC-based long rng nav w/U.S. VORTAC Database & EFIS interface Unit (D1681). First yr database update subscription is free.
Foster LNS616A $20,580	18-32/ 75	All Loran -C stations VORTAC interface	234/LED	Stores 26 flt plans, 234 WP & 150 pilot-programmed WP ref, plus all U.S. VOR, VOR/DME, & VORTAC's Incl VNAV advisory & LR651 Loran-C rcvr	3/Remote	15/ 3/ATI/ 10.04D	1 yr/ C/40b, C/56c, C/66b, C/60a	Uses VORTAC, Loran-C or both to derive pos info Incl VORTAC database & EFIS interface Unit (D1681). First yr database update subscription is free.

Navigation Long Range Navigation Systems (Continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Foster LRN500 $1,995	8-32/ @ 7w	Loran-C	254/LCD	Present pos direct, VNAV nearest airport, ETE, Trk error, "Take-it-home" programming feat. Pos. disp in rad/dist from nearest VORTAC or in lat/long	2/Panel	2.75.2/ 6.81.11.94	1 yr/ Yes	*Incl. ant/preamp. Bit-in pilot-replaceable data cartridge w/all VOR's, VOR/DME's,VORTAC's TACAN's and hard surfaced runways over 5,500'.
King/Bendix KNS 660 $24,155	28/1.77	200 VOR/ DME, 252 TACAN. All Omega	200-600/ CRT	Nav Mgmt Sys Great circle enroute, appr & VNAV. Man autosel sens & WP seq. Data-base incl. Stores 100 flight plans/800 WP. Drives EFIS & radar graphics. Freq mgmt w/ Gold Crown III.	2/Remote	22 + sensors/ 10.8/ 5.75.8	1 yr/ p&l/ Yes	Sensors incl VOR/DME, TACAN, Omega/VLF (opt $13,720). Compat w/Honeywell laser INS, & future MLS & GPS. 2CDU's avail. Scans up to 10 DME's for pos comp.
Litton LTR-81-01 $42,900	115VAC/ 400Hz	N/A	N/A Works with FMS	Dig ARINC 429 Att, mag hdg, angular rates, accel, iner Alt w/valid VOR/DME it provides GT, GS, DA horiz vel/ flt path angle, wind-spd & direction; potent vert spd. Ouptuts: pitch, roll & mag hdg in analog.	1 Rack	28.4/N/A	1 yr/ N/A	Single AHRU replaces vert. gyros., instr. ampl. Body rate gyros, body accel. and compass couplers. MTBF-7,000 hrs. VG/DG instr. ampl. MTBF 1,650 hrs. Gimbals & assoc. mech & elect. Components eliminated enhancing maintainability.
Litton LTN-211 $55,530	115VAC/ 400Hz	10.2.25 KHz	9/Dig CDU	Auto prog VLF on 4th omega freq, auto sync, station select, trk mag and true hdg, rem ranging, wind update, malfunc code readout, self-test operator error detect. Rho-Rho-Rho operation, auto GMT & date. Three freq sys available.	2 plus ant. Pedestal & rack	49.8/N/A	1 yr/ ARINC 599/ 575 dig bus	HSI synchro & dig outputs, ARINC 599 interface w/color radar, autopilot FD & HSI, nite vision goggle capability.
Litton LTN-5100 $19,500	11.44 60w	10.40 Omega & VLF	99 non-volatile Dig CDU	Auto sync & station select, trk, mag & true hdg, rem ranging, wind update, malfunc code readout, self-test, operator error detect.	2 plus E field ant. Pedestal & rack	20.2.25/ 5.75.6.4	1 yr/ N/A	Stores up to 16 rts of 9 WP ea. Std ARINC 429 & 575 Nav data to color weather-radar nav disp, integ lateral steering to autopilot. High-intensity LED, 36 char, 2 line rotatable disp, rail mounts in pedestal.
Litton LTN-91 $115,120	115VAC 400Hz	N/A	N/A	Inertial ref sys in support of a flight mgmt sys. 5 ARINC 429 data buses provide: PP, GS, pitch roll & hdg rates, body pitch & accel rates, along trk, strk & vert accel, trk angle & rate, alt, wind drift ang, hdg, speeds, des/rete.	5/N/A	49.4.5/ 5.75.6	1 yr/ N/A	D to A, laser gyro stabilized strapdown inertial ref sys for semi-analog aircraft. ARINC 704-10 MCU configuration.
Litton LTN-92 On Request	115VAC 400Hz 28VDC	N/A	99/200 Dig LED CDU	All the functions of a full inertial nav w/increased computer and data storage capacity.	5/Pedestal & rack	N/A 4.5/ 5.75.7	N/A	Laser gyro stabilized strapdown inertial nav sys for semianalog aircraft. A direct replacement for existing INS units.
Litton LTN-72R $155,545	115VAC 400Hz	N/A	99 + PP Dig LED CDU	Auto data entry, wind blanking, var let switching, action malf codes, parallel trk, outputs to Flt Dir, radar autopilots, dig air data & dig VOR, & all ARINC analog TAS computers. ARINC 561 ARINC 575.	5/Pedestal & rack	6.2.4.5/ 5.75.7.6	1 yr/ C4c, C5c11, C6c	Features bulk storage of NAV data in elect alterable mem for indefinate retention w/out power, avail w/Vandling interface for database. INS & RNAV req for enrt, term and appr.

Navigation Long Range Navigation Systems (Continued)

Manufacturer/Model Price	Input (VDC/amps) Frequencies	No. of waypoints stored Type of display Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Litton **LTN-90** **$115,120**	115VAC/ 400Hz 28VDC	N/A N/A Dig LED ISDU	Inertial ref sys in support of a flight-mgmt sys 5 ARINC 429 data buses provide: PP, GS, pitch roll & hdg rates, body pitch & accel rates, along trk, xtrk & vert accel, trk angle & rate, Alt Wind drift ang, hdg, speeds, descrete	5 Pedestal & rack	50.4 5 5.75.6	1 yr C4c, C5c, C6c	All dig, laser gyro stabilized strapdown inertial ref sys for all dig aircraft. ARNIC 704 10 MCU configuration.
Litton **LTN-72** **$139,500**	115VAC/ 400Hz	N/A 9 + PP Incand dig CDU	Actual trk, trk ang error, xtrk & desired trk + access to computer in-flight for great circle dist computation avionics interface is full ARINC 561 & ARINC 575	5 Pedestal & rack	61.4 5 5.75.7 6	1 yr C4c, C5cII, C6c	Sys uses gyro-stabilized platform to sense AC accelerations. Outputs accurate pres pos (Lat Lon) data, nav infor, steering commands & ang pitch, roll & hdg data.
Litton **LTN-72R** **$141,770**	115VAC/ 400Hz	N/A 9 + PP Incand Dig CDU	RNAV cert for enrt, term & appr. Provides xtrk gnd spd, pos of both updated & un-updatated W.P, VORTAC, pos, freq, & elevation update code, mag var, DTG, DT, status, self test, malf codes. Access to computer during flight.	5 Pedestal & rack	61.4 5 5.75.7 6	1 yr C4c, C5cII, C6c	ARINC 561 & 575. May be operated as RNAV or as an INS. As an area NAV sys, using range & brg data from sel VOR/DME, DME stations, it provides highly accurate navigation independent of time & drift errors.
II Morrow **Apollo I** **602** **$995**	6.5-48/ 1.54-.21	100 KHz 200 LED numeric	Ring & brg to, from & between W.P, gnd trk ang, gnd spd, est time enrt, xtrk error	2 Panel	4.75.2 6.25.11	26 mo Yes	Compact. Only 2" panel height req. Video training film avail. Complete w/A-16 ant.
II Morrow **Apollo II** **611** **$2,495**	6.5-48/ 2.31-.31	100 KHz 100 Hi-int alpha numeric	Brg (true or mag), rng, trk ang, gnd spd, est time enrt, xtrk error, desired trk, brg & rng, from orig, pres pos, auto mag var, CDI output, lat long cal, auto secondary	2 Panel	4.75.2 6.25.11	26 mo Yes	Enter pres pos in any W.P, only 9 controls, wide input voltage range, simple operation. Complete w/A-16 ant.
II Morrow **Apollo II** **612 IFR** **$3,295**	6.5-48/ 2.31	100 KHz 2,500 + Hi-int alpha numeric	Pre-prog W.P sel, brg & rng to & from W.P, gnd trk ang, gnd spd, est time enrt, xtrk error, desired trk, pres pos auto mag var, CDI output, lat long cal, auto secondary	2 Panel	4.75.2 6.25.11	26 mo Yes	Contains "Flybrary" 5 yr non-volatile mem, simplified controls, selectable parallel offset. Unit is IFR'd.
II Morrow **Apollo II** **612B** **$2,695**	6.5-48/ 2.31-.31	100 KHz 4,800 + Hi-int alpha numeric	Pre-prog W.P sel, brg & rng to & from W.P, gnd trk ang, gnd spd, est time enrt, xtrk error, desired trk, pres lat long cal, auto secondary, emerg, search	2 Panel	4.75.2 6.25.11	26 mo Yes	VFR only, contains "Flybrary" 5 yr non-volatile mem, simplified controls, selectable parallel offset. Complete w/A-16 ant.
II Morrow **Apollo II** **614R** **$4,995**	6.5-48/ 2.54-.34	100 KHz 2,500 + Hi-int alpha numeric leds	Flybrary w/USA region. All functions of Model 612 including emerg, search. Has added heavy iron feature of "V-NAV"	3 Remote	CDU 1.51 2.25.5.0 4.6 RCU 2.76 6.5.1.8 11.25	26 mo Yes	Remote mounted RCW, compact CDU w/DZUS rail mounting. Complete w/A-17" high speed blade ant. To be IFR'd.
II Morrow **Apollo II** **614RB** **$3,995**	6.5-48/ 2.54-.34	100 KHz 2,500 + Hi-int alpha numeric leds	Flybrary w/USA region. Has all functions of Model 612 including emerg search. V-NAV.	3 Remote	CDU 1.51 2.25.5.0 4.6 RCU 2.76 6.5.1.8 11.25	26 mo No	Remote mounted RCW, compact CDU w/DZUS rail mounting. Complete w/A-16 whip ant, VFR only.
Teledyne **TDL-711A** **$11,950**	9-36-2	100 KHz 75 Gas disp	Std nav output: dist, brg, xtk, dtk Lot, Lou, W.P, plus master indep operation, flight planning, rad dist W.P input, LOFF data link.	2 Rack & Panel	15.4.15 5.75.6.5	12.18 mth Submitted	LOFF compatible data link & ARINC 571 bus are standard features of the TDL-711A. RS-232 data bus is an opt. feature.

Navigation Long Range Navigation Systems (Continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequencies	No. of waypoints stored Type of display	Functions	No. of components/installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Terra TLC100 $1,095	14/.9	100 KHz	100/LED numeric	All chains, brg/dis btwn WP, auto MAGVAR, int CDI, xtrk/dtk, sped, est time enrt	1/Panel	3.2.0/ 6.25/10.8	3 yr/ No	Keyboard data entry, all nav data on 1 display.
Tracor TA 7880 $22,500	28/1.25	All Omega/ VLF	400/ Color/ CRT/8- line/ 14 char	Auto date, GMT, pos (lat/long), sync & stat/freq select. Brg hdg dist desired trk, trk, xtrk, selected xtrk, TAS, GS, ETA, ETE, wind, DA, per line pseudovor (rng/brg offset)-drives HSI/CDI/Flt director	3/Remote	16/3.75/ 5.75/8.0	2 yr/ p&l/ Yes	All enrt nav info single disp pg. Use of color eliminates disp clutter. Fully alphanumeric keybd. Non-volatile mem stores up to 99 flt plans, 50,000 WP database. Plain lang diag for sys status and inst ck-out. IFR cert.
Universal Navigation UNS-1 Monochrome $62,400 Color disp. $70,500	19-32V/ 2.1-2.3 amps	All Omega/ VLF and Loran-C chains	World- wide 40,000 Regional 22,000 CRT/CDU	Adv flt mgmt; VNAV; 3-D approach mode; fuel performance mgmt; database storage flexibility; unique LIST/Menu op pgm; analog digital output to flt guidance sys & radar; opt freq mgmt	2/Remote w/pedestal display choice of CDU	mono 16.0 lbs/4.5/ 5.75/6.75 color 18.2 lbs/6.5"/5/ 5.75/7.67	3 yr/ C66b, C94a, C115	Accepts multiple inertial, Omega/VLF and/or Loran-C sensor inputs, plus cont automatic DME/DME lat/lon. Prod one best comp pos. 200 rt storage. In cockpit data-base updating, and off-line flt planning cap.
Universal Navigation UNS-1jr Monochrome $29,400 Color disp. $37,500	19-32V/ 1.6 amps	All Omega/ VLF and Loran-C chains	World- wide 40,000 Regional 22,000/ CRT/CDU	Adv nav mgmt; VNAV; 3-D approach mode; fuel performance mgmt; database storage flexibility; unique LIST/Menu op pgm; analog digital output to flt guidance sys & radar; opt freq mgmt	2/Remote w/pedestal display choice of CDU	mono 11.5 lbs/4.5/ 5.75/6.75 color 14.2 lbs/6.5"/5/ 5.75/7.67	3 yr/ C66b, C94a, C115	Accepts multiple inertial, Omega/VLF and/or Loran-C sensor inputs, plus cont automatic DME/DME lat/lon. Prod one best comp pos. 200 rt storage. In cockpit data-base updating, and off-line flt planning cap.

Navigation Marker Beacon Receivers

Manufacturer/Model Price	Input (VDC/amps)	Features included	Type indication	Installation	Weight	Panel size (H)(W)(D)	Warranty	TSO	Remarks
Collins MKR-350 $485	14.28/0.5	Hi & lo sens ctrl	Tone, lites	Panel	0.6	1.0.5.1 5."	1 yr	C35d	N.A.
King/ Bendix KMR 675 $1,370	28V/1.2	Self-test, auto dimming	Tone, lites	Remote	".5	2.6.1/ 9.1	1 yr	C35d	KA 55A marker light assembly, $195.
King/ Bendix KR 21 $525	14-28V/.50	Auto dimming of blt-in lites, hi-lo sense switch blt-in	5 lites + audio outputs	Panel	0.60	1.0/5. 5.2/ 5.66"	1 yr p&l	Yes	Separate, self-contained unit, includes lights.
King/ Bendix KR 22 $410	14-28V/.5	Blt-in hi-lo lite intensity switch. MKB	5 lites + audio outputs	Panel	.40	1.2.5.5/ 2.".5	1 yr p&l	No	Self-contained unit, momentary lite test when turned on. Includes lights.
Mentor APM-1 $712	14-28/1.5	Hi-lo sens auto dim	Tones, lites	Panel	1.5	1.6/6.5/ ".4	1 yr	No	Included with full audio panel intercom option.
Terra TM23 $275	14-28/.15	Auto dimming of lights, hi-lo sens switch, auto muting	Tone, lites	Panel	.48	1.2.5.2/ 5.5	3 yr ext	No	Self-contained unit, momentory lite test vertical or horizontal mounting.

Navigation Radio Magnetic Indicators

Manufacturer/Model Price	Input (VDC/amps)	No. of pointers Internal RMI converter	Switching capability	Display features	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aeronetics 5137 $5,800	28VDC/0.5 26VAC/0	2 No	Yes, 2 VOR, 2 ADF	Color coded switches & pointers, hdg flag	Std ARINC ATI-5 per 408	2.5 5.21 5.21-6.7"	2 yr C6c	5,100 avail in various config to accept any radio outputs. Also avail w/o switches
Aeronetics 7100 $5,360	28/1.1	2 Yes	Yes, 2 ADFs, 2 VORs	Color coded switches & pointers, hdg flag	Remote box	4.5 5.21 5.21-4.84	2 yr C6c	Accepts VOR comp & x,y,z, or DC SIN/COS ADF, opt AC inverter provides sys AC power
Aeronetics 5337 $4,120	28/.75	2 No	Yes, 2 VOR, 2 ADF	Color coded switches & pointers, hdg flag	Std ARINC ATI-5 per 408	2.5 5.21 5.21-7.96	2 yr C6c	Accepts ADF x,y,z, or DC SIN/COS +/-5V or +/-8 VOR x,y,z or AC SIN/COS sq wave
Aeronetics BDI-303A $12,800	28/.75	2 No	Yes, 2 VOR, 2 ADF	Dual VOR/ADF, Dual DME distance DME hold freq	ATI 4x4	4.5 4.0 5.0-7.0	2 yr C6c C66b	Full ARINC 428 interface. Standby compass mode with flux valve input
Astronautics P/N 127700 On Request	115/400 Hz	2 No	Yes	HDG, Dual pointers N/A panel	5.25 5.25-5	2.2 1,000 hrs Yes	1yr or glass	Hermetically sealed, anti-reflective
Astronautics P/N 134650 On Request	115/400 Hz	2 No	No	All servos 4 fail flags	ARINC ATI-5	4.5 5.25 5.25-7.5	1yr or 1,000 hrs Yes	Bootstrap azimuth output. DC SIN/COS input ADF, AC SIN/COS VOR input
AIM 400CEL $4,295	14-28VDC, 9 115VAC, 400HZ/16VA	0 N/A	No	HDG	Panel	5.8 5.26 5.88-8.7"0	1 yr C6c	Has ARINC bootstrap synchro, avail in airdriven system.
AIM 800CEL(D) $5,045	14-28VDC, 9 115VAC, 400HZ/16VA	2 N/A	No	HDG/RMI/ADF	Panel	5.8 5.26 5.88-8.7"	1 yr C6c	Has ARINC bootstrap
AIM 800CEL(S) $4,845	14-28VDC, 9 115VAC, 400HZ/16VA	1 N/A	No	HDG/RMI	Panel	5.8 5.26 5.88-8.7"	1 yr C6c	Has ARINC bootstrap Synchro, avail in airdriven system.
Collins BDI-56 $9,560	28/0.8	2 N/A	ADF, VOR	Dual DME dist disp, pushbutton switch of pointers to ADF/VOR	Panel	4.5 4.2 5.4 -7.5	1 yr C6c	Accepts SIN/COS or 5-wire synchro ADF & VOR inputs, pointers independent use split 400 Hz power sources, opt bootstrap compass xmtr, integral power supply & servo amp
Collins RMI-30 $4,180	28/0.6	2 N/A	ADF, VOR	Pushbutton pointers switch ADF/VOR	Panel	2.8 5.4 5.4 -7.5	1 yr C6c	Accepts 5-wire synchro ADF input & SIN/COS VOR input, bootstrap compass xmtr, integral power supply & servo amp
Collins RMI-36 $5,935	28/0.6	2 N/A	ADF, VOR	Pushbutton pointers switch ADF/VOR	Panel	2.8 5.4 5.4 -7.5	1 yr C6c	Accepts SIN/COS or 5-wire synchro ADF & VOR inputs, pntrs independent use split 400 Hz power sources, opt bootstrap compass xmtr, integral power supply & servo amp
King/Bendix KI 229 $3,500	14-28/0.75	2 Yes	Can switch fr VOR to #2 ADF w/ ext switch	Separate needle for ADF & VOR	4" round or front-mtd 5 ATI	2.8 5.26 5.26-8.55	1 yr p&l Yes	Requires 4.0 VA 26VAC power + 14 or 28 VDC. Requires bootstrap from HSI.
King/Bendix KDI 582 $4,315	28/0.4	2 Yes	Yes	Needles switch betw ADF, VOR	Front avail in 5 ATI hole	4.0 5.26 5.26-8.58	1 yr p&l Yes	Req 6.0 VA-26 VAC power + 28 VDC. Accepts AC or DC sin cos, serial & VIR composite inputs
Sperry RH-404 On Request	28/5.6	2 No	No	HDG, RMI	Panel	5.2-5.2 5.2-6.5	2 yr Yes	Dual bearing pointers
Sperry RH-405 On Request	28/5.6	2 No	No	HDG	Panel	5.2-5.2 5.5-6.5	2 yr Yes	Dual bearing pointers contains heading output
Sperry RH-444 On Request	28/5.6	2 No	Yes	HDG	Panel	5.2-5.2 5.2-6.5	2 yr Yes	Dual bearing pointers w/ push button select
Sperry RH-445 On Request	28/5.6	2 No	Yes	HDG	Panel	5.2-5.2 5.2-6.5	2 yr Yes	Dual bearing pointers w/ push button select and heading output

Navigation VHF Comm/Nav Transceivers

Manufacturer/Model Price	Input (VDC/amps) Output (watts)	Frequency range Spacing (KHz)	No. of channels	Component independence	Features included	Installation	Weight/Panel size (H)(W)(D)	Warranty/TSO	Remarks
King/Bendix KX 155 $2,920	14-28 14V-7.5 28V-4.5 10	118-135.975 Comm 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Dig disp of act/sby freq & freq flip-flop of both Nav & Com audio leveling	Panel	5.3.2 6.25 10.16	1 yr p&l Yes	Incl install kit. Many versions avail. Opt incl GS, audio amp, & wider Com rcvr bandwidth for int'l use. Rem Nav & Com flip-flop opt.
King/Bendix KX 165 $4,420	14-28 14V-7.5 28V-4.5 10	108-135.975 Comm 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Dig disp of act/sby Com & Sav freq flip-flop of act/sby freq, dig radial	Panel	5.65.2 6.25 10.16	1 yr p&l C37b	5.050 w/GS, non-volatile memory. Remote Nav & Com flip-flop capability
Narco MK 12D $2,595	14 or 28 1.6/.14 5.9/.28 8 nom	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Simultaneous disp of ACT & standby freq	Panel	4.1.2.5 6.25.11	1 yr 2 yr opt C54c, C56c, C57b, C58b, C4a	Incl blt in VOR/LOC conv & DME chan (2x5) use w/ID-824, 825 or IDME-891 + $50 for GS
Narco HT-830 $695	9.5V 2 watt 2.6(pep)	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	No	Built-in digital	None Hand held port	2.2.5 6.25.11	1 yr No	Ideal for emergency back-up
Terra TXN 920 $1,265	14-2.5 5	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Pushbutton tuning manual and auto squelch, audio level	Panel	2.1.5 1.45 6.25.9.5	5 yr ext No	Incl install kit. GS opt. Reqs GS for DME channeling
Terra TXN 960 $1,795	14-2.5 5	108-135.975 Com 25 KHz Nav 50 KHz	Com 720 Nav 200	Yes	Built-in OBS electronic course deviation	Panel	5.7.5.5 6.25.10.4	5 yr ext No	Incl install kit, push button tuning, opt GS

Navigation VHF Navigation Receivers

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (MHz) No. of channels	Spacing (KHz)	Capabilities	Features included	Recommended CDI: Model Weight/Price	Installation/Weight Panel size (H)(W)(D)	Warranty/TSO	Remarks
Aire-Sciences R-552 $820	14-.85	108-117.95 200	N/A	Tunes an ext GS receiver and DME	N/A	ECDI-554A 1.8 $995	Panel 2.9.5.2 2.6.11.5	1 yr No	N/A
Aire-Sciences R-554A $1,425	14-.85	108-117.95 200	N/A	GS included	N/A	ECDI-554A 1.8 $995	Panel 5.5.5.2 2.6.11.5	1 yr No	N/A
Aire-Sciences R-662 $1,045	14-.85	108-117.95 200	N/A	Tunes an ext GS receiver and DME	N/A	CID-662 $975	Panel 2.9.5.2 2.6.11.5	1 yr C40a, C56c	N/A
Aire-Sciences R-664 $1,695	14-.85	108-117.95	N/A	GS included	N/A	CID-664 $1,190	Panel 5.5.5.2 2.6.11.5	1 yr C40a, C56c, C54c	N/A
Collins VIR-30A $15,420	28.0.8	108-117.95 200	50 KHz VOR/LOC, 150 KHz GS/MKB	GS & MKB	2 storable chan, non-volatile memory, gas disp	RMI-30 2.8 $4,180	Remote 6.8 5.1.5 2.5.6.5	1 yr C54c, C55d, C56c, C4za	RMI compatible, incl CTL-30 elect ctrl, 4 wire SIN/COS VOR output
Collins VIR-31A $16,405	28.0.8	108-117.95 200	50 KHz VOR/LOC, 150 KHz GS/MKB	GS & MKB	2 storable chan, non-volatile memory, gas disp	RMI-30 2.8 $5,945	Remote 8.0 5.1.5 2.5 6.5	1 yr C54c, C55d, C56c, C40z	RMI compatible, incl CTL-30 elect ctrl, 5 wire synchro VOR output, rotor modulation filt

Navigation VHF Navigation Receivers (continued)

Manufacturer/Model Price	Input (VDC/amps)	Frequency range (MHz) No. of channels	Spacing (KHz)	Capabilities	Features included	Recommended CDI: Model Weight/Price	Installation/Weight Panel size (H)(W)(D)	Warranty/TSO	Remarks
Collins **VIR-32** **$12,215**	28/1.5	108-117.95 200	50 KHz VOR/LOC 150 KHz GS/MKB	GS & MKB	6 storable chan; non-volatile memory; gas-disp	RMI-40 2.8 $4,180	Remote 5.7" 2.63 2.88 5.49	1 yr C34c C35d C36d C40b	Repl VIR-30A directly; RMI comp; incl CTL-32 serial dig ctrl; dig signal processing; blt-in diag; rotor modulation filter opt (strap)
Collins **VIR-351** **$2,605**	14.28* (14V) 0.8	108-117.95 200	50 KHz	Tunes an ext GS receiver & DME	Incand disp	IND-350A 1.5 $1,115	Panel 2" 2.6 4.12 12.45	1 yr C36c C40a	Disp either freq or TO/FR brg; elect freq readout ARINC 547; *Adapter 985
Collins **VIR-432** **$13,740**	28/1.5	108-117.95 200	50 KHz VOR/LOC 150 KHz GS/MKB	GS & MKB	6 storable chan; non-volatile memory; gas discharge display	Display on EHSI-85	Remote 5.7" 2.63 2.88 5.49	1 yr C43D C35d C36d C40b	Blt-in diagnostics; compatible only with CSDB or ARINC 429 ctrl; incl CTL-32 CSDB ctrl; dig sig processing; auto instrumentation for use with RMI; strappable rotor mod filtering
King/Bendix **KN 53** **$2,860**	14 or 28V 1 (14V), .25 (28V)	108-117.95 200 NAV, 40 GS	150 GS	VOR, LOC, GS, RMI	Act & stby, GS rcvr, DME chan	K1209 1.20 $800	Panel 3.1/1.5 6.25 9.75	1 yr C36c C40a	Angular deviation, int lighted. Opt KN54 avail w/out glide slope
King/Bendix **KNR 634** **$11,450**	28V 2.5	108-117.95 200 NAV, 40 GS	140 GS	VOR, LOC, GS, RMI, MKB	Act & stby, GS rcvr, MKB rcvr, flip-flop (incl rem)	K1206 1.5 $1,475	Remote 5.25 5.25 8	1 yr C34c C36c C40a	Rectilinear needle movement int lighted, course datum synchro add $285. Opt less GS. Opt cont head for freq Mgmt for KNS660 and 9 pilot programmable freq. storage
King/Bendix **KNR 6030** **$11,160**	28VDC, 115VAC 1.5, 0.1	108-117.95 200	50 KHz	ARINC 547	includes glide slope module design, funct test feature	K1206 1.5 $1,395	Remote 11.9 Stand ARINC 1.2 ART sht	1 yr p&l Yes	Opt Sin/Cosin avail for RMI and OBI mounting rack and connector avail for $800
King/Bendix **VNS-91A** **$10,945**	18-33/.8	108-117.95 200	50 KHz	GS & MKB std	Dig RMI readout Dichroic display	Any std type	Remote 6.1 4.4.11	2 yr C40b C36c C34c C35d	ARINC 429 interface/analog, AC/DC SIN/COS output. RAD/Brg digital readout. Also tuned by FMS. Incl mounting rack and connector kits
Narco **NAV-824** **$1,895**	11-32/.5	108-117.95 200	50 KHz	VOR/LOC, digital RMI both to & fr station	Act & stby freq, DME chan	ID-824/9 $750	Panel 3.1/1.5 6.25 11	1 yr 2 yr opt	Gas discharge disp, rectilinear needle movement
Narco **NAV-825** **$2,395**	11-32/.5	108-117.95 200	50 KHz	VOR/LOC/GS digital RMI both to & fr station	Act & stby freq, DME chan	ID-825 1.0 $850	Panel 3.3/1.5 6.25 11	1 yr 2 yr opt C34c, C36c, C40a	Gas discharge disp, rectilinear needle movement
Terra **TN200** **$595**	14.4	108-117.95 200	50 KHz	VOR/LOC/GS	Pushbutton channeling	ANV STD/TRI-NAV 1.2 $945	Panel 1.5/1.6 3.2/9	5 yr, ext No	Incl install kit opt $495

Weather Detection *Thuderstorm Detection Systems*

Manufacturer/Model Price	Input (VDC/amps)	Ranges (nm)	Scan width (°)	Display type-size	Weight/Panel size (HxWxD)	Warranty/TSO	Remarks
Sperry L52-850 $15,000	28/1.1	Range is controlled by radar	120/360 degr on radar. 120 on EFIS 120/360 on MFD	EFIS, MFD Radar	8.3 lbs. 1/2 3 ATI	1 yr/ pending	Integrates lightning data with radar data. Uses rate/area symbology. Lightning alert.
3M Stormscope WX-12 $11,975	30-15/ 1-2/ 28w	Control by radar display, out to 200nm	360 degr in radar stby mode	Integrated with radar display	8.0/ 1.46/ 3.19/ 2.5	1 yr/ pending	Interface with Sperry Coloradar. Retrofittable on existing primus systems.
3M Stormscope WX-11 $10,500	30-10/ 1-2/ 28w	25, 50, 100, 200	360 degrees	CRT 3" dia	10.7/ 3.19/ 3.19/ 9.22	1 yr/ C110	Features incl hdg stab, image enhancement circuitry; max range on ground or in air, forward mode, all controls on disp, range memory, select gyro on/off line, new TSO.
3M Stormscope WX-10A $8,950	30-10/ 1-2/ 28w	25, 50, 100, 200	360 degrees	CRT 3" dia	10.3/ 3.19/ 3.19/ 9.22	1 yr/ C110	Features incl image enhancement circuitry; max range on ground or in air, forward mode, all controls on disp, range memory; new TSO.
3M Stormscope WX-8 $3,975	30-10/ .51	100	135 degrees	LCD 3" dia	4/3.19/ 3.19/ 9.22	1 yr/ N/A	Max range on ground or in air, single panel mounted unit/display, 3 color LCD.

One is not enough

With its vast array of features—statistics, incisive articles and directories—one *Helicopter Annual* is not enough.

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Directory of Manufacturer's Contacts:

For additional information on avionics listed in this section, call the manufacturer's contacts shown below:

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Portland, OR 97223
(503)684-1600

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John E. Duffy
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4115 N. Teutonia Avenue
P.O. Box 523
Milwaukee, WI 53201-0523
(414)447-8200

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817 Dessau Road
Austin, TX 78753
(512)251-2351

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Sarasota, FL 33580
(813)355-7625

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Postfach 1980
D-7550 Rastatt
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(0 72 22) 122 17

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Cedar Rapids, IA 52498
(319)395-1000

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Orange, CA 92665
(714)998-3021

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Ft. Lauderdale, FL 33315
(510)955-9760

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Marketing Director
2950 Veterans Memorial Hwy.
Bohemia, NY 11716
(516)585-4000

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Dennis Schmidt
Marketing Director
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(614)888-9502

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Sales Representative
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Olathe, KS 66062
(913)782-0400

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Moor Park, CA 91021
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(216)942-2025

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Steve Silverstein
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Aerospace and Marine Group
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(602)863-8000

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(213)886-2211

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Albuquerque, NM 87107
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Torrance, CA 90505
(213)325-4081

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Jack Hanslip
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11300 W. 89th St.
Overland Park, KS 66214
(913)492-3000

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☐ Please send me information on HAI's Hotline Bulletin Board — a computer-based helicopter industry information system.

Name _____ Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Country _____

Telephone _____ Telex/TWX _____

Please mail this to:

Helicopter Association International
1619 Duke Street
Alexandria, VA 22314-3406

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☐ Please send me more information on HAI member insurance programs.

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HAI Directory Revision

Please change my company's listing.

Company Name _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Telex _____

Please make the following additions/deletions:

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_____

_____

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☐ *I am interested in participating in the 1988 HAI Annual Meeting & Industry Exposition in Anaheim, California.*

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Please send me complete information and an application for the following membership category.

- ☐ **Regular** — Corporation or company that owns and operates helicopters.
- ☐ **Associate** — Manufacturers, suppliers and service organizations that support the helicopter industry.
- ☐ **Sustaining** — Individuals interested in following industry events (not otherwise eligible).
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Name _____ Title _____

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Looking for information on the civil helicopter industry? Helicopter Association International has it. Just give us a call, and it's in the mail to you. Here's a partial list of publications:

- *The Fly Neighborly Guide*
- *Your Career in Helicopter Operations*
- *The 1987 Helicopter Annual, Rotorgram, or Rotor News*
- *The Heliport Development Guide*
- *Safety Manual*
- *Visibility Unlimited*
- *Maintenance, Malfunction/Information Summary*
- *Preliminary Accident Reports & Technical Reports*
- *Community Rotorcraft Transportation Benefits and Opportunities*
- *NASA/HAI Advanced Rotorcraft Technology and Tilt Rotor Workshops*
- *Amicus Brief: Coombs* (a legal brief analyzing the FAR 91.9 and 91.79, careless and reckless operation of a helicopter and minimum altitutde)
- *Amicus Brief: Hahn* (a legal brief prepared for a Pennsylvania appellate court analyzing the constitutionality of a township zoning ordinance that prohibits all helicopter activity in the township)
- *The Helicopter in the Urban/Suburban Environment*

Contact HAI for a complete publications price list. Communications Assistant, HAI, 1619 Duke Street, Alexandria, VA 22314-3406. (703) 683-4646.

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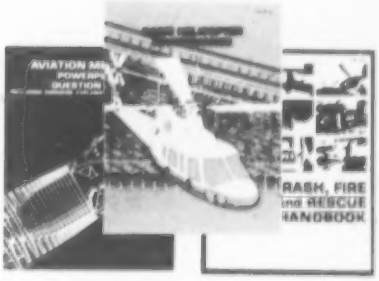

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Engine Manufacturers' Specification Guide

Single Engine Piston

Manufacturer/Model	Turbocharged	Max T/O(hp)	Max trans. rating(hp)	Fuel cons. @ 75% rated power(gph)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)	Remarks
Avco Lycoming Textron, Model HIO-360-F1AD								
Enstrom F-28F	Yes	225	225	12	12,000	293	31.96.54.25.19.97	Weight is less optional starter and accessory equipment
Enstrom 280F Shark	Yes	225	225	12	12,000	293	31.96.54.25.19.97	Weight is less optional starter and accessory equipment
Enstrom 280FX	Yes	225	225	12	12,000	293	31.96.54.25.19.97	Weight is less optional starter and accessory equipment
Avco Lycoming Textron, Model HIO-360-D1A								
Schweizer/Hughes 300C	No	190	190	12	10,100	421	35.62.35.25.19.48	Weight is less optional starter and accessory equipment
Avco Lycoming Textron, Model O-320-B2C								
Robinson R22 Alpha	No	160	124	10	14,000	255	29.56.32.24.22.99	Weight is less optional starter and accessory equipment

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Single Engine Turbine

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/width/height(in.)	Remarks
Allison, Model 250-C20B								
Bell 47 Conversions	420	270	260	650	16,000	158	88.8/19.0/25.2	
Hiller RH-1100	420	274	255	650	18,650	158	88.8/19.0/25.2	
McDonnell Douglas 500E	420	375	350	650	15,000	158	88.8/19.0/25.2	
Soloy Conversion UH12ET	420	305	305	650	12,000	158	88.8/19.0/25.2	
Allison, Model 250-C20J								
Bell 206 JetRanger III	420	317	270	650	15,500	158	88.8/19.0/25.2	
Allison, Model 250-C28B								
Bell LongRanger I	500	435	N/A	606	N/A	238	46.9/21.9/25.1	
Allison, Model 250-C30								
McDonnell Douglas 530F	650	425	350	592	18,000	249	40.9/21.9/25.1	
Allison, Model 250-C30P								
Bell LongRanger III	650	435	370	592	20,000	245	40.9/21.9/25.1	
Avco Lycoming Textron, Model LTS 101-600A-3								
Aerospatiale AStar	615	484	500	580	15,450	253	50.95/22.98/18.54	Engine offers design simplicity, easy maintenance and cost effective performance
Pratt & Whitney, Model PW 205-B								
MBB BO105LS	590	N/A	N/A	556	N/A	220	55.7/23.5/21.2	2 1/2 minute rating at 625 shp, full authority digital electronic control
Turbomeca, Arriel 1B								
Aerospatiale AS 350B	641	485	485	581	15,600	253	44.2/18.6/24.5	Certification 1977
Turbomeca, Arriel 1D								
Aerospatiale AS 350 B1/L1	684	N/A	585	591	N/A	253	44.2/18.6/24.5	Certification 1985
Turbomeca, Model Artouste IIIB								
Aerospatiale Lama	590	592	592	659	17,720	N/A	N/A	

Multi-Engine Turbine

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/ width/height(in.)
Allison, Model 250-C20B							
Agusta 109A	840	740	740 520	650	15,000	158	88.8/19.0/25.2
MBB BO 105	840	698	698 580	650	17,000	158	88.8/19.0/25.2
Allison, Model 250-C20F							
Aerospatiale AS355	840	678	678 440	650	12,000	158	88.8/19.0/25.2
Allison, Model 250-C28C							
MBB BO 105LS	1,000	790	790 495	602	20,000	245	41.8/21.9/25.1
Allison, Model 250-C30S							
Sikorsky S76	1,500	1,300	1,300 700	592	15,000	249	40.9/21.9/25.1

Multi-Engine Turbine (continued)

Manufacturer/Model	Max T/O(shp)	Max trans. rating	Cont. trans.(shp)	Specific fuel cons.(lbs/shp hr)	Service ceiling(ft)	Weight(lb)	Dimensions, length/ width/height(in.)	Remarks
Avco Lycoming Textron, Model LTS 101-650B-1								
MBB BK 117	1,100	848	848 694	.57	10,000	266	25.56/18.52/51.05	Engine offers design simplicity, easy maintenance and cost effective performance; has a 2 1/2 minute OEI rating of 592 shp
Avco Lycoming Textron, Model LTS 101-650C-3								
Bell 222	1,368	925	875 535	.57	15,800	240	19.65/22.60/51.21	Engine offers design simplicity, easy maintenance and cost effective performance; has a 2 1/2 minute OEI rating of 675 shp
Avco Lycoming Textron, Model LTS 101-750B-2								
Aerospatiale/Coast Guard SRR	1,500	N/A	N/A	.57	N/A	271	25.56/18.52/51.05	Engine offers design simplicity, easy maintenance and cost effective performance; has a 2 1/2 minute OEI rating of 742 shp
Avco Lycoming Textron, Model LTS 101-750C-1								
Bell 222 Utility Twin	1,368	925	875 735	.58	15,800	244	20.15/22.60/51.51	Engine offers design simplicity, easy maintenance and cost effective performance; has a 2 1/2 minute OEI rating of 735 shp
Avco Lycoming Textron, Model AL5512								
Boeing Vertol ER, LR, Multi-purpose	8,150	6,750	6,480 4,600	.574	6,500	780	24.25 Dia./47.1 L	
Boeing Vertol UT	8,150	6,750	6,480 4,600	.574	15,600	780	24.25 Dia./47.1 L	
General Electric, Model CT7-2A								
Bell 214ST	4,250	2,550	1,950 1,725	.478	10,000	452	25 Dia./60.	
General Electric, Model CT7-6								
HE Industries EH 101	2,000	5,000	N/A	.449	N/A	660	25 Dia./60.	
General Electric, Model CT58-140								
Agusta AS-61N1	N/A	N/A	N/A	N/A	N/A	540	16 Dia./50.	
Pratt & Whitney, Model PT6B-36								
Sikorsky S-76B	1,920	1,500	1,400 960	.524	15,000	744	N/A	
Pratt & Whitney, Model PT6T-T3								
Bell 212	1,800	1,290	1,155 970	.505	14,000	645	67.45.33	
Pratt & Whitney, Model PT6T-T3B								
Bell 412	1,800	1,400	1,155 970	.600	16,400	693.5	66.44.33	
Pratt & Whitney, Model PW209T								
Bell 400A	947	N/A	N/A	.500	N/A	498	35.7.42.9(H)	
Rolls-Royce, Model Gem 60-3								
Westland 30	2,260	2,100	2,100 1,259	.502	12,500	407	65.5.22.6.25.5	Rated at ISA + 15 degrees Celsius
Rolls-Royce, Model RTM 322, EH 101, EH1								
Turbomeca	6,900	N/A	N/A	.44	N/A	529	46.1.24.9.25.5	3 Engine installation
Turbomeca, Model Arriel 1C								
Aerospatiale Dauphin 2	1,520	1,206	1,155 700	.481	15,000	253	44.2.18.6.24.5	
Turbomeca, Model Makila 1A								
Aerospatiale Super Puma	4,510	2,760	2,440 2,080	.476	15,700	5544	74.1.7.8.26.5	

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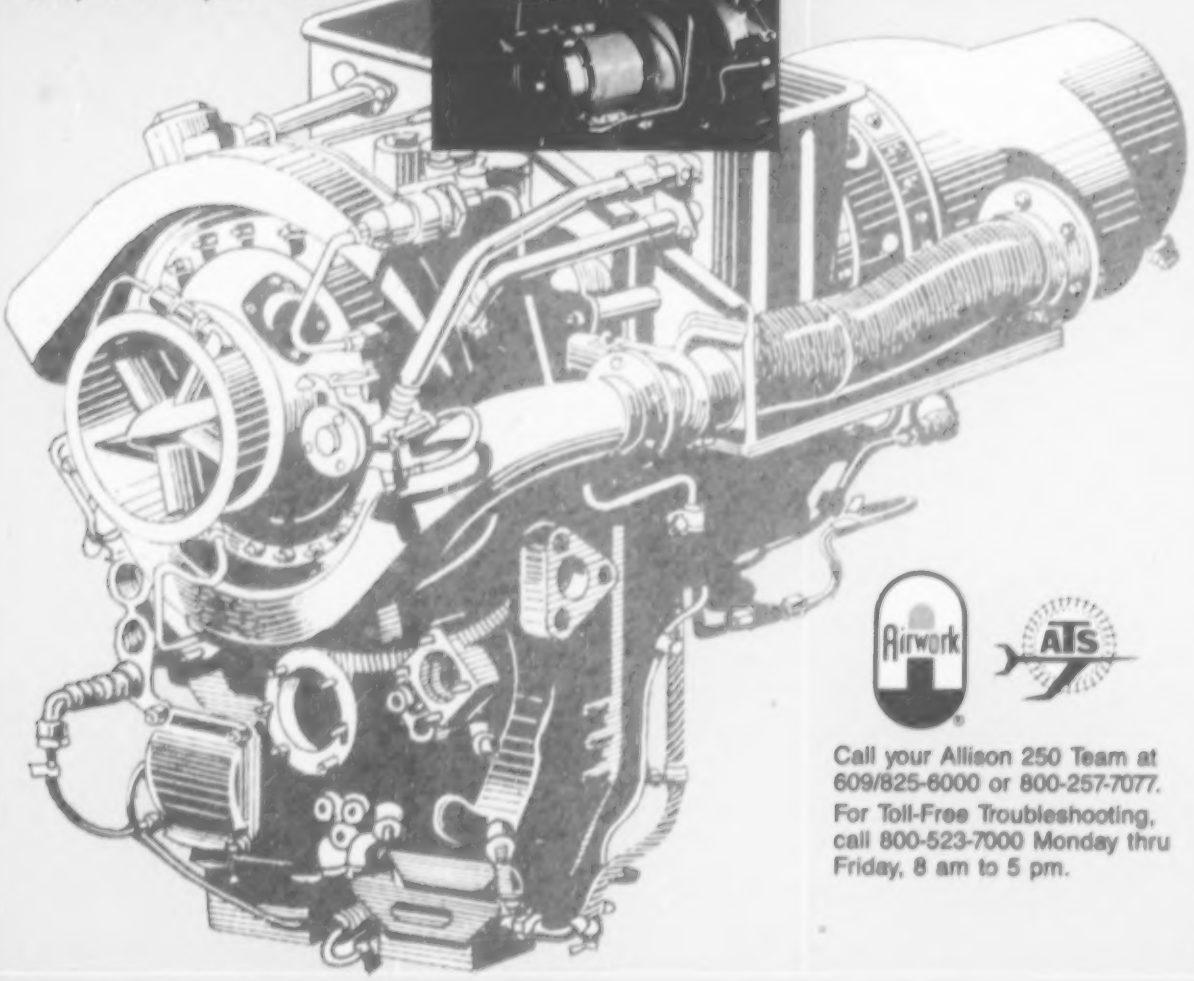

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☎ 615-538-5151 ☐ 555446

Aircraft Marketing, Ltd.
Rockville, MD
☎ 301-424-9047 ☐ 150117

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Farmingdale, NY
☎ 516-249-3055 ☐ 961541

All-System Aerospace
International, Inc.
Hauppauge, NY
☎ 516-582-9200 ☐ 221-654-497

Bendix Aerospace
(Allied Signal Inc.)
Arlington, VA
☎ 703-276-2000 ☐ 710-955-0903

Brackett Aircraft Co., Inc.
Kingman, AZ
☎ 602-757-4005

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☎ 204-775-8331 ☐ 0757774

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Irving, TX
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Measurement Systems International
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STS Avionic Products Inc.
St. Louis, MO
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☎ 503-284-4667

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- *The Fly Neighborly Guide*
- *Your Career in Helicopter Operations*
- *The 1987 Helicopter Annual, Rotorgram, or Rotor News*
- *The Heliport Development Guide*
- *Safety Manual*
- *Visibility Unlimited*
- *Maintenance, Malfunction/Information Summary*
- *Preliminary Accident Reports & Technical Reports*
- *Community Rotorcraft Transportation Benefits and Opportunities*
- *NASA/HAI Advanced Rotorcraft Technology and Tilt Rotor Workshops*
- *Amicus Brief: Coombs* (a legal brief analyzing the FAR 91.9 and 91.79, careless and reckless operation of a helicopter and minimum altitude)
- *Amicus Brief: Hahn* (a legal brief prepared for a Pennsylvania appellate court analyzing the constitutionality of a township zoning ordinance that prohibits all helicopter activity in the township)
- *The Helicopter in the Urban/Suburban Environment*

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☎ 419-866-6301 ☐ 8104402839

Tug-A-Lug, Inc.
Lancaster, CA
☎ 805-944-1910

Ground power & support equipment repair/overhaul

Chromalloy Division-Oklahoma
Midwest City, OK
☎ 405-732-6811 ☐ 748599

Daniels Manufacturing Corp.
Orlando, FL
☎ 305-855-6161 ☐ 564321

Lester Industries, Inc.
San Antonio, TX
☎ 512-344-8591 ☐ 767439

Simmonds Precision
Product Support Division
Fort Lauderdale, FL
☎ 305-497-0100 ☐ 807378

Hardware & fasteners manufacturers/distributors

Accurate Bushing Co.
Div. of Ex-Cell-O Corp.
Garwood, NJ
☎ 201-789-1121

Helicomb International, Inc.
Tulsa, OK
☎ 918-835-3999 ☐ 796168

H. Koch & Sons Division
Wickes Manufacturing Company
Anaheim, CA
☎ 714-779-7000 ☐ 655 424

Miller Industrial Tools, Inc.
Van Nuys, CA
☎ 800-423-2383 ☐ 696245 ♦ 818-785-4768

Olympic Fastening Systems, Inc.
Downey, CA
☎ 213-861-7251 ☐ 703624

Heating & air conditioning manufacturers/distributors

Aero Engineering Corporation
Clearwater, FL
☎ 813-461-5758 ☐ 803882

Casey Copter Accessories Ltd.
Dorval, PQ, Canada
☎ 514-636-6155 ☐ 05-821574

EG & G Rotron - Custom Division
Woodstock, NY
☎ 914-679-2401

Industrial Tube Corporation
Huntington Beach, CA
☎ 714-891-2365

Parker Hannifin Corporation
Aircraft Wheel & Brake Division
Avon, OH
☎ 216-937-6211 ☐ 212527

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Casey Copter Accessories Ltd.
Dorval, PQ, Canada
☎ 514-636-6155 ☐ 05-821574

Hermetic Aircraft Instrument Corporation
Farmingdale, NY
☎ 516-694-6780 ☐ 961329

Helicopter sales (Used)

Aero Support, Inc.
Long Beach, CA
☎ 213-595-1261 ☐ 656485

Aircraft Marketing, Ltd.
Rockville, MD
☎ 301-424-9047 ☐ 150117

Austin Jet Corp.
Austin, TX
☎ 512-472-8739 ☐ 322353

Bell Helicopter Asia (Pte) Ltd.
Singapore 1750, Singapore
☎ 65-542-2422 ☐ RS50555

Bow Rotors
Division of Bow Properties Inc.
Lancaster, CA
☎ 805-942-5770 ☐ 322316

California Helicopter International
Ventura, CA
☎ 805-644-5800 ☐ 6831165 ♦ 805-644-5132

Helicopter Leasing & Services, Inc.
Tampa, FL
☎ 813-877-7670 ☐ 526590

Helivia International
Englewood, CO
☎ 801-427-3727 ☐ 45885

Indianapolis Heliport Corporation
Indianapolis, IN
☎ 317-262-3000 ♦ 317-262-3013

Kinzie Industries, Inc.
Alva, OK
☎ 405-327-1565 ☐ 272531

LEEAIR, Inc.
Orem, UT
☎ 801-374-2064 ☐ 882-702

Mira Slovak Aviation
Santa Paula, CA
☎ 805-525-2191 ☐ 5106004007

Mitsui & Co. (USA) Inc.
Irving, TX
☎ 214-556-1224 ☐ 791852

Nash Helicopter Associates Ltd.
Warks, England
☎ 0926-32252 ☐ 312559 ♦ 0926-833537

Nozaki and Company Ltd.
Aircraft Department
Tokyo, Japan
☎ 03-542-9234 ☐ 22375

PLM Transportation Equipment Corporation
San Antonio, TX
☎ 512-340-5736 ☐ 763533

Rotor-Flite, Inc.
Houston, TX
☎ 713-641-0159

Shannon Financial Corporation
Pleasant Hill, CA
☎ 415-932-5809

Soloy Conversions, Ltd.
Olympia Way, WA
☎ 206-754-7000 ☐ 510-785-0241

Sony Trading Corporation
Tokyo, Japan
☎ 03-448-3136 ☐ 2424328

U.S. Aviation Corporation
New York, NY
☎ 212-213-8860 ☐ 4972309

Western Wings
Roseburg, OR
☎ 503-672-7765 ☐ 151112

Heliport consulting/planning

Alyeska Pipeline Service Co.
Anchorage, AK
☎ 907-265-8538 ☐ 25127

Aviation Business Consultants Inc.
Sarasota, FL
☎ 813-921-4941

Aviation Consulting Inc.
Manhasset, NY
☎ 516-627-7676 ☐ 647044

Heliport Consulting Services
Linden, NJ
☎ 201-862-0392

Heliport Systems, Inc. A-E Division
Morristown, NJ
☎ 201-540-0011 ☐ 220883

Indianapolis Heliport Corporation
Indianapolis, IN
☎ 317-262-3000 ♦ 317-262-3013

Marathon Oil Company
Findlay, OH
☎ 419-422-2121 ☐ 242446

Oil Industry Services A.S.
Vaagsbygd, Norway
☎ 042-86-100 ☐ 21062

Soloy Conversions, Ltd.
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☎ 206-754-7000 ☐ 510-785-0241

Vertical Aeronautics, International
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☎ 818-901-1434

Heliport equipment & lighting manufacturers/distributors

DeVore Aviation Corporation
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☎ 505-345-8713 ☐ 660436

Downing Electronics, Inc.
Northridge, CA
☎ 818-360-3791

Golar Metal, Inc.
Lionville, PA
☎ 215-363-5864 ☐ 322233 ♦ 215-363-7259

Heliport Consulting Services
Linden, NJ
☎ 201-862-0392

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Morristown, NJ
☎ 201-540-0011 ☐ 220883

International Aerospace
Technologies, Inc.
Huntsville, AL
☎ 205-837-0611 ☐ 594441

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Vaagsbygd, Norway
☎ 042-86-100 ☐ 21062

P.E.D. - Pooleys
Fremont, CA
☎ 415-490-8695

Russellstoll Division
Midland Ross Corporation
Livingston, NJ
☎ 201-992-8400 ☐ 13-8403

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☎ 818-901-1434

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Aerospace Division
Oxnard, CA
☎ 805-985-0217 ☐ 215612

Accessory Service Inc.
Valencia, CA
☎ 805-257-2217 ☐ 662630

Bendix Aerospace
(Allied Signal Inc.)
Arlington, VA
☎ 703-276-2000 ☐ 710-955-0903

Geteca, USA-France
Encino, CA
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HR Textron, Inc.
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Aircraft Wheel & Brake Division
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Aerospace Division
Oxnard, CA
☎ 805-985-0217 ☐ 215612

Accessory Service Inc.
Valencia, CA
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Duncan Aviation, Inc. •
Lincoln, NE
☎ 402-475-2611 ☐ 484365

Executive Air Taxi Corp. •
Bismarck, ND
☎ 701-258-5024

Flight Accessory Services
Sun Valley, CA
☎ 213-875-2930 ☐ 698154

Helicopter Accessory Service Inc
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☎ 818-767-2214 ☐ 466273

Helicopters Unlimited, Inc. •
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☎ 31-81-33-11 ☐ 911-655

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Pearland, TX
☎ 713-485-1777 ☐ 790461

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Valencia, CA
☎ 805-259-4030 ☐ 651492

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☎ 7221-61003-5 ☐ 781129

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Orlando, FL
☎ 305-841-3480 ☐ 564400

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Jarfalla, Sweden
☎ 08-7602720 ☐ 17294

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Lafayette, LA
☎ 318-235-2452 ☐ 586670

Pirelli S/A •
Sao Paulo, Brazil
☎ 220-8011 ☐ 011-21722

Servicio Tecnico Aeronautico S.A. de C.V. •
Merida, Yucatan, Mexico
☎ 992-4-72-90 ☐ 753863

Sky Controls, Inc.
Sun Valley, CA
☎ 213-877-0341 ☐ 9104982728

VOTEC •
Rio de Janeiro, Brazil
☎ 021-325-9044 ☐ 2135610

Instruments, gauges, switches manufacturers/distributors

A. Biederman, Inc.
Glendale, CA
☎ 818-246-8431 ☐ 315994

Aeronetics
Elk Grove Village, IL
☎ 312-437-9300 ☐ 253594

Aerosonic Corporation
Clearwater, FL
☎ 813-461-3000 ☐ 52897

Aviation Instrument Services
Miami, FL
☎ 305-251-7200 ☐ 52-5110

B & D Instruments, Inc.
Valley Center, KS
☎ 316-755-1223 ☐ 437067

Castleberry Instruments & Avionics
Austin, TX
☎ 512-251-3441 ☐ 767130

Chadwick, Inc.
Sherwood, OR
☎ 503-692-0570 ☐ 360652

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Portland, OR
☎ 503-684-3731 ☐ 510-101-0797

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Geteca, USA-France
Encino, CA
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Fort Worth, TX
☎ 817-336-7411 ☐ 758233

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Euless, TX
☎ 817-267-2651 ☐ 9108905711

Jaeger Aviation Corporation
Everett, WA
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Masco Service Corporation
Southlake, TX
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McAllister Engineering Enterprises
Kent, WA
☎ 206-852-0263 ☐ 294855UR

Measurement Systems International
Seattle, WA
☎ 206-433-0199 ☐ 328005

Pacer Systems
Billerica, MA
☎ 617-667-8800

S.F.I.M.
Massy, France
☎ 33-69-20-28-90 ☐ 692 164 ♦ 33-69-20-28-13

STS Avionic Products Inc.
St. Louis, MO
☎ 314-567-0304 ☐ 9107640810 ♦ 314-567-0376

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Aeroquip Corporation
Glenolden, PA
☎ 215-583-9400 ☐ 831429

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Anchorage, AK
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☎ 305-871-3900 ☐ 518808

Castleberry Instruments & Avionics
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☎ 512-251-3441 ☐ 767130

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☎ 503-678-1222 ☐ 360307 ♦ 503-678-5841

Duncan Aviation, Inc. •
Lincoln, NE
☎ 402-475-2611 ☐ 484365

Executive Instruments, Inc.
Addison, TX
☎ 214-239-0231 ☐ 73368

Heli-Dyne Systems Inc.
Fort Worth, TX
☎ 817-282-9804 ☐ 758619

Helicopteros de Guatemala •
Guatemala City, Guatemala
☎ 318282 ☐ 5676

Helikopter Service A/S •
Lysaker, Norway
☎ 02-590560 ☐ 76431

HELISWISS, Swiss Helicopter Ltd. •
Belp, Switzerland
☎ 31-81-33-11 ☐ 911-655

Hermetic Aircraft Instrument Corporation
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☎ 516-694-6780 ☐ 961329

Instrument Specialties Co., Inc.
Euless, TX
☎ 817-267-2651 ☐ 9108905711

Machida America
Orangeburg, NY
☎ 914-365-0600 ☐ 646955

Masco Service Corporation
Southlake, TX
☎ 817-481-8205 ☐ 735171

Motorflug GmbH •
Baden-Baden, West Germany
☎ 7221-61003-5 ☐ 781129

Ostermans Aero AB •
Jarfalla, Sweden
☎ 08-7602720 ☐ 17294

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Servicio Tecnico Aeronautico S.A. de C.V. •
Merida, Yucatan, Mexico
☎ 992-4-72-90 ☐ 753863

Insurance & financial services

Aggressive Aviation Insurance
Northridge, CA
☎ 213-999-6014

Air-Sure, Ltd.
Plano, TX
☎ 214-596-9020 ☐ 881040

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Aviation & Aerospace Division
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Hasbrouck Heights, NJ
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Associated Aviation Underwriters
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Aviation Office of America Inc.
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Bayly, Martin & Fay, Inc.
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☎ 215-923-7300 ☐ 834567

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Montreal, PQ, Canada
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Frank B. Hall Aviation
Los Angeles, CA
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Pasadena, CA
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Houston, TX
☎ 713-462-1000 ☐ 775999

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Oklahoma City, OK
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Inter Assessoria Aeronautica Ltda.
Rio de Janeiro, Brazil
☎ 021-220-3113 ☐ 2121529

Johnson & Higgins
New York, NY
☎ 212-575-7000 ☐ 420027

LEEAIR, Inc.
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Marsh & McLennan, Inc.
New York, NY
☎ 212-997-2000 ☐ 12474

Ed Marshall Insurance, Ltd.
Salem, VA
☎ 703-389-9383 ☐ 829472

O'Beirne, Nobert & Associates
Greenfield Park, PQ, Canada
☎ 514-671-1291 ☐ 05-25158

PLM Transportation Equipment Corporation
San Antonio, TX
☎ 512-340-5736 ☐ 763533

Regal Aviation & Marine Insurance
Hillsboro, OR
☎ 503-640-4686 ☐ 62868900

Rollins Burdick Hunter
National Aviation Division
Chicago, IL
☎ 312-701-4205

Rollins Burdick Hunter
Wichita, KS
☎ 800-835-2677 ☐ 417407

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☎ 415-932-5809

Stewart Smith
Stewart Wrightson Organization
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☎ 312-236-7333 ☐ 206154

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Southern Marine & Aviation
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Southern Marine & Aviation
Underwriters, Inc.
Houston, TX
☎ 713-784-6605 ☐ 790-368

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Underwriters, Inc.
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☎ 404-321-1660 ☐ 54-2375

Southern Marine & Aviation Inc.
Los Angeles, CA
☎ 213-385-8436 ☐ 67-7414

USAIG (United States Aircraft
Insurance Group)
New York, NY
☎ 212-952-0100 ☐ 129206

Stephen L. Way, International
Roseland, NJ
☎ 201-994-2225 ☐ 136296

Mechanic training schools

Aerospatiale Helicopters
Australia Limited •
Bankstown, NSW, Australia
☎ 02-7072333 ☐ 74813 ♦ 02-7071386

Air Logistics •
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Bristow Helicopter Group Ltd. •
Surrey, England
☎ 01-668-6352 ☐ 21913

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Florence, Italy
☎ 55-43961 ☐ 570616

Pilot training schools

Aero Asahi Corporation (Asahi Koyo) •
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☎ 03-988-1011 ☐ 2723355

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☎ 603-644-3003

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☎ 2118100 ☐ 044581

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Executive Airlift Helicopters, Inc. •
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FlightSafety International
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☎ 718-565-4100 ☐ 667573UW

HELIJET, S.A. •
Zaragoza, Spain
☎ 290330 ☐ 58136

Heli Union •
Paris, France
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Helicopteros Andes S.A. •
Santiago, Chile
☎ 226-3373 ☐ 340302

Helicopteros de Guatemala •
Guatemala City, Guatemala
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Rio de Janeiro, Brazil
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Transvaal, South Africa
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Kota Kinabalu, Malaysia
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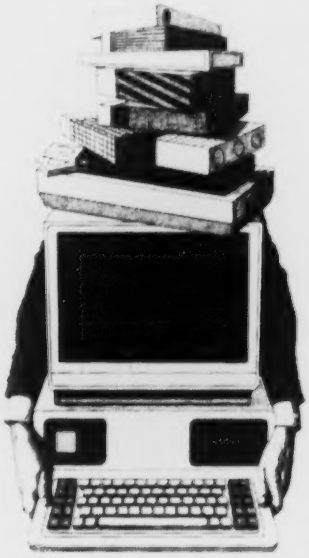

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HAI has entered the high tech world of information telecommunications. The Helicopter Hotline is running standard communications software on an IBM PC-AT compatible machine with two modem lines, 703-683-6488, 89 or telephone Ed DiCampli, Information Manager, for details on how you can hook-up to the Helicopter Hotline, (703) 683-4646. Keep up-to-date on the latest developments in the industry. It's the only way to stay one step ahead of the competition.

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Schweizer Aircraft Corp.
Elmira, NY
☎ 607-739-3821 ☐ 932459

Servicio Tecnico Aeronautico S.A. de C.V. •
Merida, Yucatan, Mexico
☎ 992-4-72-90 ☐ 753863

Spar Aerospace Limited
Toronto, ON, Canada
☎ 416-781-1571 ☐ 06524240

St. Louis Helicopter Airways Inc. •
St. Louis, MO
☎ 314-532-1177

Tiller Helicopter Service Inc. •
Alice, TX
☎ 512-664-6453

Vancouver Island Helicopters Ltd. •
Sidney, BC, Canada
☎ 604-656-3987

VOTEC •
Rio de Janeiro, Brazil
☎ 021-325-9044 ☐ 2135610

Western Aircraft Maintenance Inc
Morrison-Knudsen Co., Inc.
Boise, ID
☎ 208-386-6565 ☐ 368439

Western Gear Corporation
Arlington, VA
☎ 703-892-1673 ☐ 710-955-1184

Western Helicopters, Inc. •
Rialto, CA
☎ 714-829-1051 ☐ 676421

Test & monitoring equipment manufacturers/distributors

Barfield Instrument Corp.
Miami, FL
☎ 305-871-3900 ☐ 518808

Bendix Aerospace
(Allied Signal Inc.)
Arlington, VA
☎ 703-276-2000 ☐ 710-955-0903

Chadwick-Helmuth Co.
El Monte, CA
☎ 213-575-6161 ☐ 194271

Chelton, Inc.
Lewisville, TX
☎ 214-221-1783 ☐ 795555

Computing Technologies
for Aviation (CTA)
Charlottesville, VA
☎ 804-971-7624

Cyberstar
Santa Rosa, CA
☎ 707-546-2222

Helitune Ltd.
Worcester, England
☎ 6845-69292 ☐ 335626

Howell Instruments, Inc.
Fort Worth, TX
☎ 817-336-7411 ☐ 758233

Kell-Strom Tool Co., Inc.
Wethersfield, CT
☎ 203-529-6851 ☐ 994426

The Marvel Manufacturing Co.
Fairfield, NJ
☎ 201-227-6090

Measurement Systems International
Seattle, WA
☎ 206-433-0199 ☐ 328005

Olympus Corporation
Industrial Fiberoptics Dept.
Lake Success, NY
☎ 516-488-3880 ☐ 960199 ♦ 516-222-0878

Patterson Enterprises Inc.
Van Nuys, CA
☎ 818-781-1421

Scientific-Atlanta, Inc.
San Diego, CA
☎ 619-268-7210 ☐ 9103221733

SEM AG (Sophisticated Equipment Marketing)
Steinhausen - Zug, Switzerland
☎ 42-41-77-35 ☐ 862-645

Simmonds Precision
Product Support Division
Fort Lauderdale, FL
☎ 305-497-0100 ☐ 807378

TEDECO Division
Aeroquip Corporation
Glenolden, PA
☎ 215-583-9400 ☐ 831429

Teledyne Avionics
Charlottesville, VA
☎ 804-973-3311

Transaero, Inc.
Woodbury, NY
☎ 516-921-7400 ☐ 967734 ♦ 516-921-7407

Uniforms & helmets

David Clark Company Inc.
Worcester, MA
☎ 617-756-6216 ☐ 920482 ♦ 617-753-5827

FitzWright Suits Ltd.
Surrey, BC, Canada
☎ 604-576-9424 ☐ 04-54208

Flight Suits, Ltd.
El Cajon, CA
☎ 619-440-6976 ☐ 295478

Other

Aircraft Modular Products
Miami, FL
☎ 305-633-6817 ☐ 522876

Anavibe Services, Inc.
Hawkesbury, ON, Canada
☎ 613-632-2502

Anavibe Services, Inc.
Anchorage, AK
☎ 907-345-1982

Arabian American Oil Company
Aviation Department
Dhahran, Saudi Arabia
☎ 876-2339 ☐ 601220 ♦ 876-1590

Arrow International
Dallas, TX
☎ 214-421-7177

Atlantic Richfield Company
Dallas, TX
☎ 214-651-5260

Avfuel Corporation
Ann Arbor, MI
☎ 313-663-6466

Avio Sales & Service Corp.
Holmdel, NJ
☎ 201-671-0873 ☐ 756483

Breitling, Halcyon Watch Co.
Norwalk, CT
☎ 203-853-2141

C.P. Waggoner
Grand Prairie, TX
☎ 214-988-0376

Chase, Rotchford, Drukker & Bogust
Los Angeles, CA
☎ 213-626-8711

Daniel Systems, Inc.
Opa Locka, FL
☎ 305-685-6286 ☐ 518748

Eberhard Klemens
Naperville, IL
☎ 312-416-1999

Embry-Riddle Aeronautical University
Daytona Beach, FL
☎ 904-252-5561

Flight Safety Foundation
Arlington, VA
☎ 703-820-2777 ☐ 901176

Fluorocarbon Technologies Inc.
Annapolis, MD
☎ 301-268-6451 ☐ 386950 FTCA

Geophysical Service Inc.
Dallas, TX
☎ 214-995-7680

Heavylift Marketing, Inc.
Miami, FL
☎ 305-591-2272 ☐ 522384

Hitchcock Industries, Inc.
Dennison, TX
☎ 214-786-6000 ☐ 730294

Imperial Oil Limited
Air Transport & Reservations
Toronto, ON, Canada
☎ 416-968-4491 ☐ 06524255

Indal Technologies Inc.
Mississauga, ON, Canada
☎ 416-275-5300 ☐ 06-961482

Jet Turbine Service, Inc.
Fort Worth, TX
☎ 817-536-0012 ☐ 735237

Pauli & Griffin Co.
Vacaville, CA
☎ 707-447-7000 ☐ 176328

Pedley Nets
Glen Ellen, CA
☎ 707-996-6629

Precise Flight, Inc.
Bend, OR
☎ 503-382-8684

Sky Sign
Miami, FL
☎ 305-759-7446 ☐ 807533

Spectrolab, Inc.
Sylmar, CA
☎ 818-365-4611 ☐ 182881 ♦ 818-365-7680

Southern Air Transport, Inc.
Miami, FL
☎ 305-871-5171 ☐ 51-8856 ♦ 305-871-2921

Texaco, Inc.
Aviation Transport Division
Houma, LA
☎ 504-876-5470

Texstar, Inc.
Grand Prairie, TX
☎ 214-647-1366 ☐ 073-2397 ♦ 214-641-2800

Tiodize Co., Inc.
Huntington Beach, CA
☎ 714-898-4377

TOTAL CFP
Paris, France
☎ 1-42-91-47-50 ☐ 615-700

Weld-It Company
Los Angeles, CA
☎ 213-263-7524

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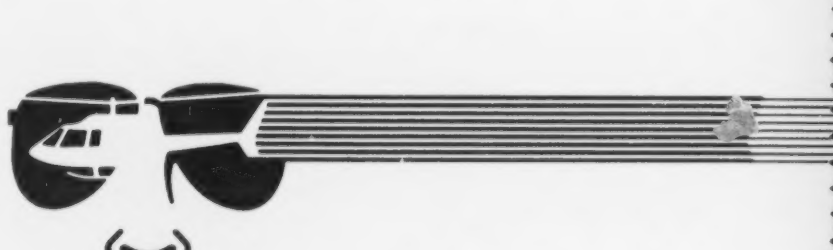


HELICOPTER OPERATORS... READY TODAY!

Alphabetical Listing of Member Operators Worldwide

HAI member listings include detailed information on personnel, operators and equipment. The ☐ indicates the telex number and the ♦ indicates the company's fax machine number. Immediately following the alphabetical directory is the member operators matrix of services. Organized geographically by state or country, by city within the state, then alphabetically, it lists the services provided by each HAI member operator.

Abu Dhabi Aviation
P.O. Box 2723
Abu Dhabi, United Arab Emirates
☎ 722733 ☐ 23409
General Manager: Ali Saeed Al-Shamsi
Operations Manager: Philip N. Stevens
Deputy Operations Manager:
George G. Tucker, III
Engineering Director: Salah Al Zein
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: 6-206B, 26-B212

Aero Asahi Corporation (Asahi Koyo)
Sunshine 60, 32 Fl, 1-1, 3 Chome
Higashi-Ikebukurro, Toshimaku
Tokyo 170, Japan
☎ 03-988-1011 ☐ 2723355
President: Hidenori Takahashi
Executive Managing Director:
Wataru Nishikawa
Operations Manager: Minoru Asai
Chief Pilot: Mitsushi Matsumoto
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Private owners, Repair station (FAA certified), Sightseeing, Skiing, Traffic surveillance
Helicopters: 2-330J, 8-B212, 6-B412, 36-206B, 6-204B, 4-214B, 10-B47G, 11-350B, 6-355F, 2-332L, 1-S76A, 1-214ST, 1-MI8, 2-BK117, 1-B105, 2-206L

Aero-Copters Inc.
8013 Perimeter Road South
Seattle, WA 98108
☎ 206-763-2177
President: G.C. Garbell
Vice President: B.J. Garbell
Chief Pilot: L.S. Stickney
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 3-206B

Aero-Executive Helicopters
4251 S. Higuera Street
Suite 101
San Luis Obispo, CA 93401
☎ 805-544-3990
President: Warren F. Dolezal
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206L3

Aero Support, Inc.
P.O. Box 211
Bedford, NH 03102
☎ 603-644-3003
President: Gary W. York
Director of Operations/Chief Pilot:
Jay Chandler
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 1-206B

Aero West Management Service, Inc.
P.O. Box 9368
Albuquerque, NM 87119
☎ 505-243-9031
President: Donald C. Ambabo
Chief Pilot: Gene Wilson
Director of Maintenance:
John McKeever
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Electronic news gathering, External cargo, Fire control/support, Government contracting, Herding/stock & wildlife, Photography, Skiing
Helicopters: 3-206B3, 1-500D

Aeroexpreso Bogota Ltda.
Apartado Aereo 6781
Bogota, Colombia
☎ 2118100 ☐ 044581
President: James G. Leaver
General Manager: Roberto Nino
Technical Director: Gustavo Nivia
Operations Director: Carlos Ayala
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Pilot training school, Traffic surveillance
Helicopters: 6-500D, 1-500E, 1-B105

Aerogulf Services Co. (Pvt) Ltd.
P.O. Box 10566
Dubai, United Arab Emirates
☎ 245157 ☐ 46674
General Manager: U.J. Sobiecki
Contract Coordinator: J.H. Kirk
Chief Pilot: R. Davidson
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Offshore, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 3-B212, 5-B105, 4-206B

Aerospatiale Helicopters Australia Limited
P.O. Box 51
Bankstown Airport
Bankstown, NSW, 2200, Australia
☎ 02-7072333 ☐ 74813 ♦ 02-7071586
Commercial Manager: T.A. Summers
Marketing Manager: B. Robertson
Product Support Manager:
J.C. Reboulet
Technical Services Specialist:
D. Ladbrook
Operations: Mechanic training school, Pilot training school, Repair station (FAA certified)
Helicopters: 1-350B

AEtna Life & Casualty
Hangar 85-176
Bradley International Airport
Windsor Locks, CT 06096
☎ 203-627-3060 ☐ 99241
Manager, Corporate Aviation:
James N. Montstream
Chief Pilot: William W. Faulkner
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76A

Africair, Inc.
P.O. Box 165139
Miami, FL 33116-5139
☎ 305-255-6973 ☐ 803519
President: Marvin L. Evans
Vice President/Operations:
Franz Astner
Vice President/Marketing:
Bruce Fullerton
Assistant Vice President:
Bill Desai
Operations: Exploration, External cargo, Government contracting, Offshore
Helicopters: 5-206B, 5-206L

Ag Air Inc.
P.O. Box 190
Johnstown, CO 80534
☎ 303-776-8944
President: Gary M. Osborne
Operations Manager: Ron L. Osborne
Operations: Agriculture, External cargo
Helicopters: 1-H12E, 1-500C

Ag Rotors Inc.
P.O. Box 578
Gettysburg, PA 17325
☎ 717-334-6777
President: Timothy H. Voss
V.P. Sales/Marketing:
Edward Cunningham
V.P. Maintenance: Larry Helwig
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: 4-206B, 2-H12E, 8-47B, 1-B212

Air Hanson Ltd.
Brooklands
Weybridge
Surrey, KT13 OSH, England
☎ 0932-57611 ☐ 928545
Managing Director:
Capt. Patrick McHaffey
Marketing/Sales: Michael Wheatley
Financial: Bob Daws
Chief Engineer: Patrick J. Newell
Operations: Air taxi/charter (US part 135), Bank paper transportation, Executive transport, External cargo, Government contracting, Law enforcement (for hire), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 2-S76A, 2-206B, 2-206L, 2-B222

Air Logistics
P.O. Box 5-C
Lafayette, LA 70505
☎ 318-365-6771 ☐ 586616
President/Chief Operating Officer:
James Clement
Director of Maintenance:
Gerald Freeman
Director of Operations:
Allan Williams
International Operations:
Hans J. Albert
Operations: Air carrier, Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: 19-S76A, 32-206B, 32-206L, 4-B412, 3-205A, 10-B212, 5-355F

Air Methods Corporation
Denver/Centennial Airport
P.O. Box 4114
Englewood, CO 80112
☎ 303-790-0587
President: Roy L. Morgan
Director of Operations:
Maurice Martin
Director of Maintenance:
David Soucie
Chief Pilot: Steve Scully
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport
Helicopters: 2-206L2, 5-206L3, 3-222B

Air Services International, Inc.
7300 E. Evans Road
Scottsdale, AZ 85260-3178
☎ 602-948-2150 ☐ 668-445
President: Robert M. Wachs
Vice President: Scott S. Smith
Chief Pilot: Mike McDonald
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 8-206L3, 2-206B3, 3-315B

Aircoastal Helicopters, Inc.
74 Lindy Lane, Suite B
West Palm Beach, FL 33406
☎ 305-471-1218
President/Chief Pilot:
Boyce D. Crowe, Jr.
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Photography
Helicopters: 1-206L, 2-206B

Aircoastal Helicopters, Inc.
818 South Main Street
Orlando, FL 32801
☎ 305-841-2769
Pilot: Ron Geiser
Operations: EMS/air ambulance
Helicopters: 1-206L

Airfast Indonesia P.T.
Kuningan Plaza - Suite 304
Jl. H.R. Rasuna Said Kav C 11-14
Jakarta, 12940, Indonesia
☎ 517696 ☐ 44497
President: Frank D. Reuneker
Director: Erlangga Suryadarma
General Manager: Terence E. Steen
Chief Pilot: Charles A. Weitz
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Sightseeing
Helicopters: 8-S58T, 4-204B, 2-206B, 1-316B

Alaska Helicopters, Inc.
P.O. Box 190283
Anchorage, AK 99519-0283
☎ 907-243-3404 ☐ 25372 ♦ 907-248-0342
Chairman of the Board:
Wesley G. Lematta
President: Rex I. Bishopp
Operations Manager: Steven R. Smith
Director of Maintenance:
Thomas E. Craig
Chief Pilot: Bill Woollen
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 14-206B, 5-206L1, 2-205A, 1-B107

Alemdar Helikopter Servis Ltd.
Corporate Plaza II
51 Cragwood Road
S. Plainfield, NJ 07080
☎ 201-756-1555
President: Murat Alemdar
Chief Pilot: Tanju Tezgel
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 1-206B

Alexair
25320 Bellanca Way
Torrance, CA 90505
☎ 213-326-3338 ☐ 653582
President: Eli Alexander
Operations Manager:
Steve A. Alexander
Operations: Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Executive transport, Law enforcement (for hire), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 2-500C, 1-500D, 2-300B

Allied Automotive
30000 Northline Road
Detroit, MI 48242
☎ 313-941-2300 ☐ 23-0699
President/Chief Executive Officer:
J. Mason Reynolds
Operations Manager/Chief Pilot:
Donald G. Harner
Helicopter Captain: James W. Moore
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B, 1-B222

Allied Signal Corporation
Allied Aviation Department
Morristown Airport
Morristown, NJ 07960
☎ 201-455-6012
Director, Aviation: G.J. DiSilvestro
Chief Pilot: Jack G. Childs
Chief of Maintenance: Jim S. Johnson
Helicopter Captain:
George Edward Newton, Jr.
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76A

Almaden Vineyards Inc.
1530 Blossom Hill Road
San Jose, CA 95118
☎ 408-269-1312 ☐ 357478
Vice President/General Manager:
Ron Siletto
Treasurer: David R. Barasch
Chief Pilot: Joseph B. Shipley
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

American Express Company
Hangar "E"
Westchester County Airport
White Plains, NY 10604
☎ 914-948-5311
Chief Pilot: Kenneth Wallace
Chief of Maintenance: Thomas Fleming
Senior Helicopter Captain:
Ronald C. Lombardo
Helicopter Captain: Ronald E. Becker
Helicopter Captain: Chauncey Webb
Helicopter Co-Pilot: Tim McDonough

Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76B

American Protective Services
785 Doe Place, INEL CF-608
Idaho Falls, ID 83402
☎ 208-526-8033
President, APS: Tom Keating
Air Operations Manager:
Michael Dee Atwood
Project Manager, APS: John Maloney
Director, Safeguard & Security:
Bob Bostian
Asst. Manager-Admin./DOE: Stu Milam
Operations: Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 2-222UT

Amoco Corporation
5901 S. Central Avenue
Chicago, IL 60638
☎ 312-856-6667 ☐ 9102210111
Chief Pilot: A.B. Lane
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-355E, 1-206B

Analar Corp./Church & Dwight Co., Inc.
P.O.Box 3302
Princeton Airport
Princeton, NJ 08540
☎ 609-683-4790
President: Wendell Harkelroad
Operations Manager:
Willard C. Kimm, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-206B

Anheuser-Busch Companies, Inc. Flight Operations
P.O. Box 826
Bridgeton, MO 63044
☎ 314-427-2201 ☐ 9107650915
Operations Manager: Carl E. Henke
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B222, 1-B412, 1-206B3

Arabian Helicopters Ltd.
P.O. Box 619
Dhahran Airport, 31932, Saudi Arabia
☎ 898-0028 ☐ 670724
President: William J. Maddox
Operations Manager: Alvin M. Poore
Chief Pilot: Neil E. Elliott
Maintenance Superintendent:
Robert Grogan
Operations: Air taxi/charter (US part 135), Executive transport, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified)
Helicopters: 2-214S, 6-B212, 12-206B

Arctic Air Service, Inc.
1801-A North "H" Street
Lompoc, CA 93436-2827
☎ 805-735-3717
President: Walter N. Attebery
Director of Operations:
Richard Wallace
Chief Pilot: James O. Wisecup
Director of Maintenance:
Robert Maunder
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable)
Helicopters: 2-S76A, 1-206B

Aris Helicopters, Ltd.
1138 Coleman Avenue
San Jose, CA 95110
☎ 408-998-3266 ☐ 62921815
President: Stephen R. Sullivan
Vice President: Wayne E. Burk
Secretary/Treasurer:
Nancy R. Sullivan
Chief Pilot: Jonathan J. Long
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 4-300C, 2-500D, 1-206B, 4-350D, 3-S58T

Arizona Department of Public Safety - Air Safety Division
P.O. Box 6638
Phoenix, AZ 85005
☎ 602-262-8413
Commander, Aviation Division:
Capt. Frank S. Root
Commander, Air Rescue Section:
Lt. William D. Saulter
Operations: EMS/air ambulance, Law enforcement (not for hire)
Helicopters: 2-206B, 2-206L

Arizona Public Service Co.
P.O. Box 53999
Mail Station 3350
Phoenix, AZ 85072-3999
☎ 602-371-3216
President: Mark DeMichele
Manager: Doug McClymont
Chief Pilot: Kai Pederson
Helicopter Pilot: Ron Wallace
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, External cargo, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-355F

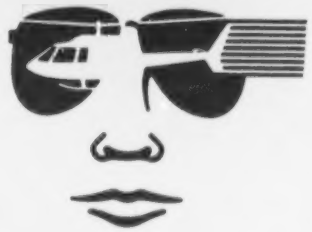
Armadillo Airways Helicopters
9801 Westheimer
Suite 808
Houston, TX 77042
☎ 800-231-4141 ☐ 790386
President: Buck Ballas
Director of Operations: Wayne Brown
Director of Maintenance:
Duane Beland
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Executive transport, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 3-206B

Associated Helicopter Services, Inc.
3501 Lakewood Boulevard
Long Beach, CA 90808
☎ 213-420-2128
President: Les G. Smith
V.P./Dir. of Operations:
Clifford T. Fleming
Chief Pilot: Chris Saunders
Director of Maintenance: Ray Hanna
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable),

Manufacturer's Key Code/Manufacturer

313B	Aerospatiale	47G5	Bell	H12D	Hiller
315B	Aerospatiale	47H1	Bell	H12E	Hiller
316B	Aerospatiale	47J	Bell	269A	Hughes/Schweizer
3160	Aerospatiale	47J2	Bell	300B	Hughes/Schweizer
318C	Aerospatiale	47J3	Bell	300C	Hughes/Schweizer
319B	Aerospatiale	47K	Bell	500A	Hughes/McDonnell Douglas
321J	Aerospatiale	204B	Bell	500C	Hughes/McDonnell Douglas
330J	Aerospatiale	205A	Bell	500D	Hughes/McDonnell Douglas
330K	Aerospatiale	206A	Bell	500E	Hughes/McDonnell Douglas
330L	Aerospatiale	206B	Bell	530F	Hughes/McDonnell Douglas
332C	Aerospatiale	206L	Bell	KV107	Kawasaki
332J	Aerospatiale	B212	Bell	BK117	Kawasaki
332L	Aerospatiale	214B	Bell	B105	MBB
341G	Aerospatiale	214ST	Bell	BK117	MBB
350B	Aerospatiale	222B	Bell	R22	Robinson
350C	Aerospatiale	222UT	Bell	RH-100	Rogerson/Hiller
350D	Aerospatiale	412	Bell	S55T	Sikorsky
355E	Aerospatiale	BV44	Boeing Vertol	S58T	Sikorsky/California
355F	Aerospatiale	BV47	Boeing Vertol	S61L	Sikorsky
360C	Aerospatiale	B107	Boeing Vertol	S61N	Sikorsky
361	Aerospatiale	B234	Boeing Vertol	S62	Sikorsky
365	Aerospatiale	TCAT	Continental (Bell)	S64	Sikorsky
365N	Aerospatiale	F28A	Enstrom	S70C	Sikorsky
109A	Agusta	F28C	Enstrom	S76A	Sikorsky
47B	Bell	F28F	Enstrom	S76B	Sikorsky
47D	Bell	280C	Enstrom	SL12	Soloy
47G	Bell	280F	Enstrom	UH12E	Soloy
47G2	Bell	280FX	Enstrom	SL47	Soloy
47G3	Bell	1100	Fairchild	WASP	WASP
47G4	Bell	12E4	Hiller	WG30	Westland

INSURE YOUR FUTURE WITH HAI



HAI listens to its members' problems and responds with workable solutions. Insurance is an industry-wide problem. HAI is developing a program to meet specific insurance needs.

Last year, HAI received specific survey responses from 500 helicopter companies representing operators of all sizes, all over the country. Their concerns?

Helicopter and heliport liability and helicopter hull and workers compensation ranked high on the list. HAI is using that information to set up a cost-effective insurance program.

HAI works for the helicopter industry. HAI works for its members. Solving insurance problems is just one of the many innovative HAI programs. Join us. Call Helicopter Association International at: (703) 683-4646.

Photography, Repair station (FAA certified), Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206L3, 1-204B, 1-205A, 1-B222, 1-350B, 1-500D, 1-206B

AT&T Resource Management Aviation Division
Morristown Municipal Airport
Morristown, NJ 07960-4648
☎ 201-326-1400 ☐ 7109867459
Aviation Division Manager:
Kenneth R. Smith
Chief Pilot: William C. Beversluis
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-109A

ATA Asahi Transna Airways P.T.
30th Fl., Ratu Plaza Office Bldg
Jalan Jenderal Sudirmm, Senayan
Jakarta, Indonesia
☎ 711061 ☐ 47426 MC JKT
President: Kohei Saitch
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, Forestry, general, Logging, Offshore, Photography
Helicopters: 2-B212, 9-206B

Atlantic Helicopter Service
P.O. Box 384
Palm Beach, FL 33480
☎ 305-659-3711
Partner: George G. Matthews
Operations: Corporate (US part 91, not for hire), Photography
Helicopters: 1-206B

Aurora Helicopters, Inc.
P.O. Box 229
Willow, AK 99688
☎ 907-495-6306
President: Harry M. Craviotto
Chief Pilot: Mose Car
Operations: Agriculture, Air taxi/charter (US part 135), Exploration, External cargo, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Sightseeing
Helicopters: 1-206B

Austin Helicopter Service Inc.
10006 Baxter Lane
Austin, TX 78736
☎ 512-476-7565
President: Jerry D. Angerman
Operations: Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-206B

Autair Helicopters (EA) Ltd.
P.O. Box 41951
Nairobi, Kenya
☎ 501658 ☐ 22512
President: F.W. Wilcox
V.P. Sales/Marketing: L.O. Svensson
V.P. Public Relations:
T.S. Ward-Booth
Chief Engineer: E.F. Kibirige
Operations: Agriculture, Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography
Helicopters: 5-206B, 1-47G3

Aviation Services Unlimited
Rural Route 1; Box 46
Hinman Road
Barneveld, NY 13304
☎ 315-896-2076
President: Lothar G. Stahlberg
Operations Manager:
Harold T. Lennon, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Executive transport, Exploration, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206B, 1-47D1, 1-B47G

B & G Helicopter Corp.
4150 Broadmoor Avenue, S.E.
Grand Rapids, MI 49508
☎ 616-698-9050 ☐ 234133
President: Paul E. Geddes
Operations Manager: Frank Schultz
Chief Pilot: John Longstreet
Sales: John McColley
Operations: Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-206B, 2-S58T, 1-214B, 1-S61L

B.H. Pacific Pty. Limited
P.O. Box 18
Brisbane Airport
Queensland, 4007, Australia
☎ 07-268-4077 ☐ 140397 ◆ 07-268-7815
Managing Director: Joseph V. Moharich
Operations: Repair station (FAA certified)
Helicopters: 1-206L

Baltimore Gas & Electric Co.
P.O. Box 1475
Baltimore, MD 21203
☎ 301-234-5000 ☐ 7102341670
Manager - Transportation:
R. C. Dernoga
Operations: Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-206B

Benz Sales Company
8900 Trinity Blvd.
Hurst, TX 76053
☎ 817-282-1212 ☐ 758-504
Chief Executive Officer:
Roy H. Coleman
President: Jack Bell
Vice President: Blair W. Carlson
Operations: Construction, Private owners
Helicopters: 1-47G

Bertea/Aviation Inc.
P.O. Box 606
Corvallis, OR 97339-0606
☎ 503-753-4466 ☐ 51059060687
President: Jeanette B. Hennings
Vice President: Richard Bertea
General Manager: Edward W. Hennings
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Electronic news gathering, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Logging, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-500E, 2-500D, 1-H12E, 1-SL12

Big Valley Aviation Inc.
1794 Lindbergh Street
Stockton, CA 95206
☎ 209-982-4991 ☐ 5107655162
Secretary/Treasurer: Ray Etcheverry
Operations: Repair station (FAA certified)
Helicopters: 1-47G3, 2-206B, 3-H12E

Bird Space Technology
P.O. Box 817
Sandpoint, ID 83864
☎ 208-263-2549
President: Forrest M. Bird
Operations: EMS/air ambulance
Helicopters: 1-47G3, 1-206B, 1-B212

Black Beauty Coal Company, Inc.
P.O. Box 312
Evansville, IN 47702
☎ 812-424-9000
Chief Pilot: Lou Buck
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L1

Blackhawk Helicopters, Inc.
P.O. Box 1412
Provo, UT 84601
☎ 801-375-9218
President: Donald L. Sides
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography
Helicopters: 4-315B, 1-316B

Blakes Helicopter Service
8100 Pleasants Valley Road
Vacaville, CA 95688
☎ 707-448-7278
President/Owner: William K. Blake
Operations: Construction, Exploration, External cargo, Forestry, general, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Private owners, Sightseeing
Helicopters: 1-47G2

Board of Civil Aviation
Flight Safety Department
Norrkoping, S 601 79, Sweden
☎ 011-192000 ☐ 64250
Flight Inspector: Ragnar Boge
Operations: Government agency (not for hire)

Bohemia Inc.
90692 Greenhill Road
Eugene, OR 97402
☎ 503-688-6777 ☐ 364442
President: S.E. Pittman
Chief Pilot: Joe Murphy
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, External cargo, Fire control/support, Forestry, general, Photography
Helicopters: 1-341G

The Bob Bondurant School of High Performance Driving
Highways 37 and 121
Sonoma, CA 95476
☎ 707-938-4741
President: Robert L. Bondurant
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Private owners, Sightseeing, Traffic surveillance
Helicopters: 1-341G

Boulais Farms
4833 West Country Gables
Glendale, AZ 85306
☎ 602-843-1220
Partner: Richard A. Boulais
Partner: Marcel J. Boulais
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

Gene Branscome Investments
P.O. Box 1276
Baytown, TX 77520
☎ 713-420-5777
Chief Pilot: R.J. (Ric) Forns
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Herding/stock & wildlife, Photography
Helicopters: 1-206L

Joe Brigham, Inc.
23 Poor Richards Drive
Bow, NH 03301
☎ 603-225-3134
President: Joesph R. Brigham
Operations: Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Forestry, general, Patrol (power, pipeline, buried cable), Photography
Helicopters: 2-206B, 1-206L3

Briles Wing & Helicopter, Inc.
16592 Arminta Avenue
Van Nuys, CA 91406
☎ 818-994-1445 ☐ 662902
President: Paul Briles
General Manager: Greg W. Briles
Director of Operations: James Lucas
Assistant General Manager:
Mike Guest
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Skiing, Traffic surveillance
Helicopters: 5-206B3, 2-206L1, 4-206L3, 1-500D

Bristol-Myers Company
Hangar E
Westchester County Airport
White Plains, NY 10604
☎ 914-761-5766
Director of Aviation: Donald Esser
Senior Captain: John Dempsey
Chief of Maintenance: Peter Bonk
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76B

Bristow Helicopter Group Ltd.
Redhill Aerodrome
Redhill
Surrey, RH1 5JZ, England
☎ 01-668-6352 ☐ 21913
Managing Director/Chief Executive:
Bryan Collins
Director of Operations:
Alastair C. Gordon
Director of Engineering:
William Petrie
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Government contracting, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: 21-S61N, 26-332L, 8-330J, 35-B212, 16-S76A, 10-206B, 6-47G4, 2-WS553

British Airways Helicopters
Howe Moss Drive
Kirkhill Industrial State
Dyce, Aberdeen, AB2 0DU, Scotland
☎ 0224-771624 ☐ 73615
Managing Director:
Michael Graham-Cloete
Commercial Director: Keith Bolshaw
Flight Operations Director:
Stewart Birt
Engineering Director: Muir Parker
Operations Director: Tom Porteous
Air Safety Officer: T. Jenkins
Operations: Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Construction, External cargo, Offshore, Pilot training school
Helicopters: 4-B234, 17-S61N, 4-S76A, 3-332L, 3-WG30

C.R.I. Helicopters
20881 Cerritos Avenue
Apple Valley, CA 92307
☎ 619-247-5845
President: Chet Rasberry
Maintenance Supervisor:
Curtis Stites
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol

(power, pipeline, buried cable), Photography, Skiing
Helicopters: 2-500D, 2-206B, 1-B212, 1-204B, 1-206L1, 1-350D

Caesars Atlantic City
P.O. Box 7584
Trenton, NJ 08628-0584
☎ 609-771-8071
Chief Pilot: Robert Doyle
Chief of Maintenance: Don Custer
Senior Captain: Edward Ferguson
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76A

California Department of Forestry
1416 Ninth Street
Sacramento, CA 95814
☎ 916-324-9689
Helicopter Program Manager:
Olis H. Kendrick
Lead Helicopter Pilot: Cecil Gill
Operations: Fire control/support, Forestry, general
Helicopters: 10-UH-1F

California Federal Savings
5670 Wilshire Boulevard, #2580
Los Angeles, CA 90036
☎ 213-932-4661
Chief Pilot: Steve Sirk
Pilot: Steve Hopp
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

William K. Carpenter
Atrium Financial Plaza, Ste. 202
1515 North Federal Highway
Boca Raton, FL 33432
☎ 305-368-0629
Owner: William K. Carpenter
Operations: Private owners
Helicopters: 1-206B

Cascade Helicopters, Inc.
407 N. Division
P.O. Box 596
Cashmere, WA 98815
☎ 509-782-2915
President: Fred C. Scaman
Vice President: William H. Wells
Operations Manager: Effie Alvarez
Chief Pilot: William H. Wells, Jr.
Secretary/Treasurer: James F. Ripley
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-315B, 1-350D, 3-206B, 2-47G3, 2-SL47

Central Flying Service, Inc.
Adams Field
Little Rock, AR 72202
☎ 501-375-3245
Chairman: Donald Holbert
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 1-206L3

Chevron U.S.A. Inc.
P.O. Box 26845
New Orleans, LA 70186
☎ 504-241-2120 □ 058243
Manager, Aircraft Services:
W.S. Wakefield
Manager, Aircraft Operations:
Herman O. Moore
Chief Pilot: C.K. Roberts
Maintenance Supervisor: R.H. Wild
Operations: Corporate (US part 91, not for hire), Offshore
Helicopters: 18-206B, 7-S76A, 3-S62

Chicago Fire Department
Air/Sea Rescue Section
1500 South Lake Shore Drive
Chicago, IL 60605
☎ 312-744-4718
Commissioner: Charles B. Roberts
Operations Manager:
George E. Tannehill
A & I: Fred Marshal
Operations: EMS/air ambulance, Fire control/support, Government agency (not for hire), Law enforcement (not for hire), Traffic surveillance
Helicopters: 1-206B, 1-204B, 1-47G4

Brian Chuchua's Jeep, Inc.
776 S. Placentia Avenue
Placentia, CA 92670
☎ 714-879-5337 □ 655-460 ♦ 714-528-7001
Owner/President: Brian Chuchua
Pilot/Maintenance:
Michael R. Aubochon
Operations: Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-F28C, 1-F28A, 1-F28O, 1-206B

Churchill Falls Labrador Corp.
P.O. Box 256
Churchill Falls, LB, A0R 1A0, Canada
☎ 709-925-3405 □ 0162287
President: John Henderson
Operations Manager: Jack Murphy
Chief Pilot, Helicopters:
Charles Ramsey
Operations: Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, External cargo, Fire control/support, Patrol (power, pipeline, buried cable)
Helicopters: 1-205A, 1-206B, 1-206L

CIGNA Corporation
Hangar 85-176
Bradley International Airport
Windsor Locks, CT 06096
☎ 203-726-4459
Director/Corporate Aviation:
H.W. Parrish
Chief Pilot: William W. Faulkner
Director of Base Operations:
William McBride
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 2-S76A

City of Fort Worth Helicopter Services
1400 Nixon Street
Fort Worth, TX 76102
☎ 817-870-8310
Chief Pilot: Al Smith
Pilot: Dave Ankerberg
Pilot: Tommie Parks
Mechanic: Kenneth Hughey
Operations: Executive transport, Fire control/support, Government agency (not for hire), Law enforcement (not for hire), Photography, Pollution detection/monitoring, Traffic surveillance
Helicopters: 2-206B3

City of Los Angeles
8060 Balboa Boulevard
Van Nuys, CA 91406
☎ 818-989-8574
Director, Fleet Services:
Clifford G. Welsh
Chief Pilot, Fleet Services:
James Garner
General Manager: Sylvia Cunliffe
Commanding Officer: Robert O. Woods
Captain, L.A.F.D.: Kenneth L. Dameron
Captain: Robert L. Hart
Operations: Construction, Executive transport, External cargo, Government agency (not for hire), Patrol (power, pipeline, buried cable), Photography, Traffic surveillance
Helicopters: 3-206B, 1-UH1B, 1-47G3, 1-47J2

City of Virginia Beach
Room 225
Public Safety Building
Virginia Beach, VA 23456
☎ 804-427-4192
President/CEO: Thomas H. Muchlenbeck
Emergency Services Coordinator:
R. Lee Eskey
Operations: Government agency (not for hire), Law enforcement (not for hire), Photography
Helicopters: 2-47G3

Colgate-Palmolive Company
333 Industrial Avenue
Teterboro, NJ 07608
☎ 201-288-1811 □ 134707
Senior Captain: George M. Jones
Chief of Maintenance: Frank DeSanto
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-BK117

Collins Brothers Corporation
Terrible Herbst, Inc.
P.O. Box 42427
Las Vegas, NV 89116
☎ 702-736-6151
Principal: E.A. Collins
Principal: M.M. Collins
Principal: Jerry Herbst
Chief Pilot: Willis Griffin
Chief Helicopter Pilot:
Ray Christopher
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Colorado Airlift Inc.
12420 E. Control Tower Road
Englewood, CO 80112
☎ 303-841-5552
President: Creig Dunn
Vice President: Vicki Dunn
Director of Marketing:
Wendel Jessmer
Director of Maintenance:
Troy Atkinson
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Logging, Photography, Skiing
Helicopters: 2-315B, 1-316B, 1-206B, 1-500D

Columbia Helicopters, Inc.
P.O. Box 3500
Portland, OR 97208-9952
☎ 503-678-1222 ☐ 360307 ♦ 503-678-5841
President: Wesley G. Lematta
Executive Vice President:
Roy Simmons
V.P. Safety & Field Operations:
James Lematta
V.P. Sales/Marketing:
Jon A. Lazzaretti
V.P. Maintenance: Jack Pyle
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 11 B107, 2-B234, 4-H12E, 2-S76A, 1-206B

Commercial Aviation Pty. Limited
P.O. Box 309
Revesby, NSW, 2212, Australia
☎ 02-707-4200 ☐ AA74478
General Manager: Phill Gant
Chief Pilot: Wally Watkins
Operations: Exploration, External cargo, Offshore
Helicopters: 1-B212, 1-330J

Commodore Helicopters at Fisherman's Wharf
240 Redwood Highway
Mill Valley, CA 94941
☎ 415-332-4482
President: Lu Hurley
Director of Operations: John Heene
General Manager: Roberta Work
Operations: Air carrier, Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: 3-206B, 1-206L

Conoco, Inc.
Aviation Department
Allegheny County Airport
W. Mifflin, PA 15122
☎ 412-469-0443 ☐ 86-6247
President/CEO: B.R. Brown
Operations Manager: W. Howard Morgan
Chief Pilot, Pittsburgh Div.:
Andrew R. McGreever
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76A

Continental Illinois National Bank & Trust Company
Air Transportation
231 S. LaSalle Street
Chicago, IL 60697
☎ 312-923-3576 ☐ 253412
Unit Manager, Transportation:
Sterling West
Maintenance: Steve Dorich
Aviation Safety Officer: Edward Ban
Operations: Bank paper transportation, Corporate (US part 91, not for hire), Executive transport
Helicopters: 3-206L

Corporate Jets Inc.
Allegheny County Airport
Pittsburgh, PA 15122
☎ 412-462-2800
President: Richard M. Ryan
Director of Operations:
Al Stretavski
Helicopter Operations Manager:
Richard G. Miller
Chief Pilot: Jim Rice
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Repair station (FAA certified)
Helicopters: 1-B105, 1-BK117, 1-350D, 2-355F

County of Los Angeles Fire Dept. Air Operations
12605 Osborne Street
Pacoima, CA 91331
☎ 818-899-2556
Chief, Air Operations:
~~James~~ M. Sanchez
Chief of Maintenance:
Douglas E. Mathews
Operations: Fire control/support, Government agency (not for hire)
Helicopters: 1-206B, 1-204B, 3-205A

County of Ventura
Public Safety Aviation Unit
275 E. Pleasant Valley Road
Camarillo, CA 93010
☎ 805-484-3601
Pilot: Chris Spangenberg
Operations: EMS/air ambulance, Fire control/support, Government agency (not for hire), Law enforcement (for hire)
Helicopters: 1-47G3, 3-204B

Court Helicopters (Pty) Limited
P.O. Box 2546
Cape Town, 8000, South Africa
☎ 021-932-9211 ☐ 5-20696
Chairman: J.J.M. Van Zyl
Managing Director: C.J. Labuschagne
Operations Manager: K. Zehrt
Chief Engineer: G. Spreadbury
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Traffic surveillance
Helicopters: 1-S62A, 6-558T, 2-S61N, 4-47G5, 9-206B, 1-269C

Crane Helicopter Services, Inc.
P.O. Box 4041
Fremont, CA 94539
☎ 415-657-3001
President: Steven W. Lotspeich
Director of Maintenance:
John T. DeStories
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-S58T, 1-500C

Crescent Airways, Inc.
N. Perry Airport
7501 Pembroke Road
Hollywood, FL 33023
☎ 305-987-1900 ☐ 522-701
President: Larry D. Stevens
Vice President: Dean H. Shealy
Director of Operations:
William Evans
Director of Maintenance:
Gary J. Freeman
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Fire control/support, Forestry, general, Government contracting, Offshore, Pollution detection/monitoring
Helicopters: 17-206B, 1-206L

Crew Concepts, Inc.
3815 Rickenbacker
Boise, ID 83705
☎ 208-344-4691 ☐ 150026
President: John J. Shelstad
Director of Maintenance:
Harold DeGrange
Secretary/Treasurer: Keith Watson
V.P. Public Relations:
Charlie Minshew
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Skiing
Helicopters: 1-B212

Crippen Companies
10132 G & H Colvin Run Road
Great Falls, VA 22066
☎ 703-450-5650
Vice President: Lock Crippen
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-206B

Cruzeiro Taxi Aereo S/A
Av. Almirante Frontin, 381
Rio de Janeiro, 21030, Brazil
☎ 021-270-8582 ☐ 21859
President:
Leopoldino C. de Amorin Filho
Superintendent: Renato Jose Rosenburg
Operations: Air taxi/charter (US part 135), Exploration, External cargo, Offshore
Helicopters: 2-330J, 4-350B, 3-206B3

Custom Helicopters Ltd.
Box 249, Station A
Winnepeg, MB, R3R 1B2, Canada
☎ 204-338-7953 ☐ 0757133
President: J.M. Hawes
Vice Pres./Operations Manager:
E.W. Derkach
Vice President: D.R. McDougall
Chief Pilot: S.H. Beeman
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 11-206B

Cypress Helicopters Ltd.
P.O. Box 808
Monterey, CA 93942
☎ 408-372-1191 ☐ 330072
President: G. Clifford Gaston
Director of Marketing:
Elizabeth French
Secretary/Treasurer:
Chris P. Johnson, Esq.
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-206B3, 1-206L3

D.H. Braman Company
One O'Connor Plaza
Suite 1100
Victoria, TX 77901-6549
☎ 512-526-2568
Chief Helicopter Pilot:
Andrew W. O'Pry
Chief of Maintenance: Dan Wilson
Senior Pilot/Mechanic:
Ambrose A. Connelly, Jr.
Pilot: Larry Reese
Operations: Corporate (US part 91, not for hire), Executive transport, Herding/stock & wildlife, Law enforcement (not for hire), Patrol (power, pipeline, buried cable)
Helicopters: 1-S76A, 1-SL47

D.O.C., Inc.
5161 River Road
Bethesda, MD 20816
☎ 301-951-1300 ☐ 898452
President: Philip E. Hixon
Vice President: Victor Garaycochea
Operations: Executive transport
Helicopters: 2-206B

Damin Aviation Corporation
900 Lincoln Harbor
Weehawken, NJ 07087
☎ 201-863-7200 ☐ 857634
Vice President: Peter C. Wendt
Vice President/Sales & Marketing:
Anthony Amanzio
Chief Pilot: Arthur J. Hill
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Electronic news gathering, Executive transport, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: 4-B222, 12-350D, 3-S76A, 1-206B

Dana Corporation
Route 4
P.O. Box 297A
Swanton, OH 43558
☎ 419-535-4625 ☐ 286402
Director: Carl Ramsey
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Data General Corporation
4400 Computer Drive
Westboro, MA 01580
☎ 617-366-8911 ☐ 7103901217
Chief Pilot: John Anderson
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Corwin D. Denney
9500 Wilshire Boulevard
Beverly Hills, CA 90212
☎ 213-275-4589
Owner: Corwin D. Denney
Operations: Private owners
Helicopters: 1-206B

Department of Aviation
Aircraft Data Section
G.P.O. Box 367
Canberra, A.C.T., 2601, Australia
☎ 684589 ☐ 62221
Aircraft Data Officer: P.H. Meier
Operations: Government agency (not for hire)

Departmento del Distrito
Federal-Servicios Aereos
Apartado Postal 9-007
Mexico, D.F., 15620, Mexico
☎ 905-558-2416
Chief Pilot: Max F. Diaz
Operations: Government agency (not for hire)
Helicopters: 1-B212

Derazona Air Service P.T.
P.O. Box 283/Jkt
Jakarta, Indonesia
☎ 803427 ☐ 48179
President: Asril Lamisi
Director: Atty B. Milyarti
Operations Manager:
Capt. Achmad Machfuld
Maintenance Manager: Budi T. Munadi
Operations: Air taxi/charter (US part 135), Forestry, general, Offshore, Photography, Sightseeing
Helicopters: 7-206B, 1-314G

Diamond Shamrock Aviation Co.
Blue Grass Field
Lexington, KY 40510
☎ 606-666-7581
Pilot: Dean Sinor
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Digital Equipment Corporation
Hangar 5
Hanscom Field
Bedford, MA 01730
☎ 617-276-4980
President: Kenneth Olsen
Aviation Manager: Douglas Hammond
Chief Pilot: Thomas Chestnut
Maintenance Manager: Walter Hansen
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 6-206B, 1-222UT

Dome Petroleum Ltd.
Hangar 60
275 Palmer Road, N.E.
Calgary, AB, T2E 7G4, Canada
☎ 403-234-4439 ☐ 03826883
Chief Pilot, Rotary Wing:
Selwyn House
Operations: Corporate (US part 91, not for hire), Executive transport, External cargo, Offshore
Helicopters: 1-S61N, 1-S76A

Dooley Helicopters, Inc.
2003 Flightway Drive
Dekalb Peachtree Airport
Chamblee, GA 30341
☎ 404-458-3431
President: Richard E. Budd, Jr.
General Manager: Ronald S. Lohmeier
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, External cargo, Fire control/support, Forestry, general, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: 6-206B, 1-206L, 1-269C

Doosan Development Co., Ltd.
Han Hyo Bldg., 8th Floor
34-2 Yoido-Dong,Young Deung Poku
Seoul, Korea
☎ 783-17037 ☐ 22071
Representative: Hyuk Namgung
Assistant Manager: Lee Jae Hak
Assistant Manager: Soo Sam Su
Operations: Agriculture, Air taxi/charter (US part 135), Commuter/scheduled, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: 1-500D, 1-206L, 1-BK117

Dow Jones & Co.
P.O. Box 7006
West Trenton, NJ 08628
☎ 609-882-4516
Chief Pilot: Gregory Miller
Assistant Chief Pilot: Sandy Kaplan
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B105

Duncan Aviation, Inc.
P.O. Box 81887
Lincoln, NE 68501
☎ 402-475-2611 ☐ 484365
Vice President: Chuck Gallagher

Secretary/Treasurer: Harry O. Barr
Manager, Service Marketing:
Kevin McGinn
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 1-206B, 1-204B, 1-47J2

Eagle Air Helicopters, Inc.
P.O. Box 1555
Forks, WA 98331
☎ 206-374-9276
President: James D. Mott
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Photography
Helicopters: 1-500D

East Coast Helicopters, Inc.
2440 Mendon Road
Cumberland, RI 02864
☎ 401-769-5786
Chief Pilot: Russell J. Johnson
Operations: Air taxi/charter (US part 135), Electronic news gathering, Law enforcement (not for hire), Photography
Helicopters: 1-206B

EDS Helicopter Division
7171 Forest Lane
Dallas, TX 75230
☎ 214-661-6000
Director of Aviation and Travel:
Harry McKillop
Chief Pilot - Helicopter Division:
W.A. "Dub" Blessing
Director of Maintenance - Helicopter Div.:
Thomas L. Doskocil
Operations: Corporate (US part 91, not for hire), Executive transport, Private owners
Helicopters: 1-206B, 2-206L

Edwards & Associates, Inc.
P.O. Box 3689
Bristol, TN 37625
☎ 615-538-5111 ☐ 553446
President: Robert B. McNab
Vice President: James A. Wolfe
Public Relations: Timothy Landis
Vice President/Sales: David Blevins
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 4-206B, 1-206L

EJ Helicopters, Inc.
(Electronic Journalism)
321 N. Hollywood Way
Burbank, CA 91505
☎ 818-841-0401
President: Robert H. Pettee, Jr.
Chief Advisor: Neil Bos
Operations: Air taxi/charter (US part 135), Electronic news gathering
Helicopters: 1-206B

El Aero Services, Inc.
P.O. Box 149
Elko, NV 89801
☎ 702-738-7123
President: Joseph W. Green
Service Manager: Ted R. McBride
Chief Pilot: John M. Kelly
Manager: Jack Fulton
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 4-206B, 3-47G3, 1-206L

Elitos Helicopters S.p.A.
Via Nicolo Paganini, 66
Florence, 50127, Italy
☎ 55-43961 ☐ 570616
Senior Director: Gian F. Blower
President: Osvaldo Gigliotto
Vice President: Emilio Drach
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Pollution detection/monitoring
Helicopters: 6-330J, 1-B212, 1-B412, 1-109A, 2-B105

EmergyCare, Inc.
(Life Star Helicopter)
1701 Sassafras Street
Erie, PA 16501
☎ 814-452-7602
President/CEO: Earl Gettinger, Jr.
Assistant Director: Stephen R. Wirth
Operations Director: Mark W. Litz
Chief Flight Nurse:
Geri Ann Derr, R.N.
Operations: EMS/air ambulance
Helicopters: 1-BK117

Emerson Electric Co.
P.O. Box 10247
St. Louis, MO 63145
☎ 314-426-1137 ☐ 9107651000 ♦ 314-426-4099
Director of Operations: Les Heikkila
Chief Pilot: Paul Stinebring
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B222

K.W. Emerson Inc.
Box 29
Arnold, CA 95223
☎ 209-795-1045
President: Ken Emerson
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-47G3

Emory Aviation Inc.
3333 Hitchcock Drive
Denison, TX 75020-8496
☎ 214-786-3333 ☐ 730294
Chairman & CEO: Gregory T. Hitchcock
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

ERA Helicopters, Inc.
6160 S. Airpark Drive
Anchorage, AK 99502
☎ 907-248-4422 ☐ 09025324 ♦ 907-248-4422
President: David L. Baumeister
Executive Vice President:
Charles W. Johnson
Senior Vice President: Will O'Brien
Vice President, Maintenance:
Dana Rudd
Operations: Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Construction, Executive transport, Exploration, External cargo, Fire control/support, Offshore, Repair station (FAA certified)
Helicopters: 16-B212, 12-B412, 2-B222, 3-355F, 4-205A, 23-206B, 4-206L, 23-B105, 12-350D, 1-305B

ERA Helicopters, Inc.
Gulf Coast Division
P.O. Box 6566
Lake Charles, LA 70606
☎ 318-478-6131 ☐ 502459 ♦ 318-474-3918
Executive Vice President:
Charles W. Johnson
Operations: Air taxi/charter (US part 135), Construction, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: See Alaska office for fleet information.

Erickson Air Crane Co.
3100 Willow Springs Road
P.O. Box 3247
Central Point, OR 97502
☎ 503-664-5544 ☐ 15-1673
President: Jack Erickson
General Manager: Jack Montgomery
Director of Sales: Lee Ramage
Director of Maintenance:
J.D. Jordan
Operations: Construction, External cargo, Forestry, general, Government contracting, Logging, Repair station (FAA certified)
Helicopters: 1-204B, 1-206B, 4-S64E, 1-47G3

Esso Australia Ltd.
P.O. Box 372
Sale, Victoria, 3850, Australia
☎ 051-495201 ☐ AA55120
Helicopter Div. Superintendent:
A.R. Adams
Operations Supervisor: M.J. Ward
Aviation Advisor: M.J. Meehan
Aviation Advisor: J.C. Ross
Operations: Commuter/scheduled, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Mechanic training school, Offshore, Photography, Pilot training school, Private owners, Repair station (FAA certified)
Helicopters: 6-S76A, 3-B212, 2-205A

Evergreen Helicopters Inc.
3850 Three Mile Lane
McMinnville, OR 97128
☎ 503-472-9361 ☐ 151306 ♦ 503-434-6484
President: Delford M. Smith
Sr. Vice President Marketing:
Robert D. Fox
Vice President of Operations:
John Kiesler
Director of Operations: Wade Green

Chief Pilot: Terry Olson
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 1-S64, 13-B212, 8-205A, 7-315B, 7-316B, 1-BK117, 19-206B, 3-206L, 10-B105, 17-500D, 9-SL12, 2-H12E, 4-318C

Executive Air Fleet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608
☎ 201-288-8400 ☐ 134408
President: J.C. Christiansen
Executive Vice President: W.B. Watt
Vice President Marketing/Sales:
M. Moore
Vice President/Flight Operations:
C.W. Heugh
Operations: Air carrier, Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport
Helicopters: 5-S76A, 1-B105

Executive Air Taxi Corp.
P.O. Box 2273, Bismarck Airport
Bismarck, ND 58502
☎ 701-258-5024
President: Dennis Rohlfs
Director of Helicopter Operations:
Darrell E. Lewis
Director of Maintenance: Dave Aukes
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 1-206B, 2-206L

Executive Airlift Helicopters, Inc.
Suite 103
5801 Marvin D. Love Frwy.
Dallas, TX 75237
☎ 214-330-8167
President: Louise Kearney
Manager: F.G. Kearney
Chief Pilot: Clarence J. Lott
Director of Maintenance: Steve Myra
Operations: Air taxi/charter (US part 135), Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Traffic surveillance
Helicopters: 4-206B

Executive Helicopter, Inc.
5040 W. 63rd Street
Chicago, IL 60638
☎ 312-284-7385
President: William A. Stamer
Vice President, General Manager:
Ralph C. Rosenbrock
Director of Flight Operations:
Fred J. Ligman
Chief Pilot: Steven M. Rowe
Operations: Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-206B, 5-F28A, 1-206L, 1-355F

Executive Transport Inc.
d/b/a Cityhop
Brainard Airport
Hartford, CT 06114
☎ 1-800CITYHOP
President/CEO: Salvatore Nicotra
Director of Operations:
Francis E. Negri
Chief Pilot: Frank Bayer
Administrative Director:
Marilyn Nemerich
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Corporate (US part 91, not for hire), Executive transport, Photography, Sightseeing
Helicopters: 2-109A, 1-350B

Express Marine, Inc.
29th St. on the Delaware River
Camden, NJ 08105
☎ 609-541-4600
Chief Pilot: Jeffrey A. Tait
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: 1-206L

Exuma Aviation, Inc.
Energy Centre · Suite 1950
New Orleans, LA 70163
☎ 504-582-2444
President: J. Alfred Levert, II
Operations: Martha F. Levert
Operations: Private owners
Helicopters: 1-206B3

Exxon Company USA
P.O. Box 60766
Houston, TX 77205
☎ 713-656-2503
Manager/Aviation: Charles L. Andrus
Operations: Corporate (US part 91, not for hire), Exploration, Offshore
Helicopters: 5-S76A, 1-B212, 1-206L, 2-B412

Finning Tractor & Equipment
Company Limited
555 Great Northern Way
Vancouver, BC, V5T 1E2, Canada
☎ 604-872-4444 ☐ 04508717
Pilot: R.J. Jeffrey
Sales Manager: R.M. Kaye
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-341G

Florida Power & Light Company
P.O. Box 029100
Miami, FL 33102
☎ 305-552-3858
Manager of Aviation: Breck L. Porter
Helicopter Pilot: Glenn A. Aurelius
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B, 1-206L

Fostaire Helicopters
400 N. Wharf Street
St. Louis, MO 63102
☎ 314-421-5440
Vice President/General Manager:
Clarke M. Thomas
Director of Maintenance:
Herb Baldwin
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-47G2, 3-206B3, 1-47J, 1-206L

Fraser, Inc.
27 Rice Street
Edmundston, NB, E3V 159, Canada
☎ 506-735-5551 ☐ 01445538
President: Jim Bowersock
Operations Manager: Alex Smith
Chief Pilot: Brian Johnstone
Engineer: Richard Manning
Operations: Corporate (US part 91, not for hire), Executive transport, Forestry, general
Helicopters: 1-206L

Fugazy Air, Inc.
Smith Road
Ramapo Valley Airport
Spring Valley, NY 10977
☎ 914-352-8677
President/CEO: Richard Christifer
V.P. Marketing/Sales:
Robert J. Gnecco
Director of Operations: John C. Agor
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 2-206B, 1-206L, 2-B222, 1-109A

Gannett Co., Inc.
P.O. Box 17408
Washington, DC 20041
☎ 703-661-8992
Director, Flight Operations:
John M. Gallagher
Pilot: Roland Hill
Pilot: Bruce Erion
Pilot: Nick Lawler
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Traffic surveillance
Helicopters: 2-206L, 2-206B

Gemini Aviation
9140 W. Dodge Road, Suite 200
Omaha, NE 68114
☎ 402-393-2144
President/CEO: William Theisen
Director of Operations:
Richard Nathan
Manager, Helicopter Operations:
Mike Lambert
Chief Pilot: Ed Graf
Operations: Corporate (US part 91, not for hire), Exploration
Helicopters: 1-206L

General Transportation Corp.
2111 Smithtown Avenue
Hangar D
Ronkonkoma, NY 11779
☎ 516-588-5321 ☐ 5102286505

Vice President: Guy Salvadore
Director of Flight Operations:
Timothy L. Breen
Chief Pilot: Frank X. Cotroneo
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-S76A, 1-332L

Geo-Seis Helicopters, Inc.
2030 Airway Avenue
Fort Collins, CO 80524
☎ 303-484-3600 ☐ 9109309448
President: William T. Browder
Operations Manager/Chief Pilot:
Richard J. Tanner
Director of Maintenance:
Carl L. Brunswig
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Skiing
Helicopters: 2-315B, 1-316B, 2-206B

Golden Nugget Transportation Corp.
900 Lincoln Harbor
Weehawken, NJ 07087
☎ 516-294-8840
Aviation Manager: Jonathan G. Watson
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A, 1-332L, 1-109A

Grand Canyon Helicopters
P.O. Box 455
Grand Canyon, AZ 86023
☎ 602-638-2410 ☐ 165-714
President: Elling Halvorson
Vice President: James L. Kahan
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Government agency (not for hire), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 2-206L, 7-206B, 1-350D

Greenlandair, Inc.
P.O. Box 1012
Dk-3900
Godthaab, Greenland
☎ 24488 ☐ 90602
President: Claes Piper
V.P./Technical Division:
Robert Suedebrant
V.P./Route Division: Jorn Rosenberg
Operations: Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing
Helicopters: 4-S61N, 5-206B, 6-B212, 1-355F

Greystone
222 Greystone Road
Evergreen, CO 80439
☎ 303-674-2428
Chief Pilot: Michael D. Vick
Chairman/Chief Executive Officer:
Warren A. Smith
Vice President, Finance:
Susan A. Smith
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-500D

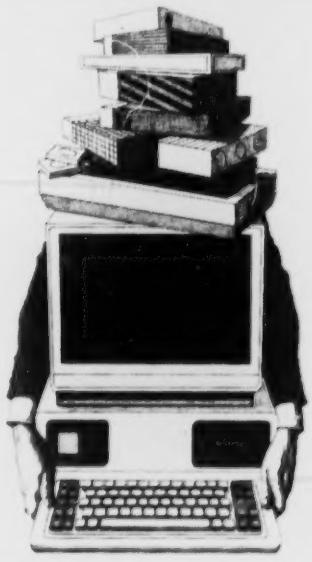
GTS International, Ltd.
635 South Park Avenue
Buffalo, NY 14210
☎ 716-856-6500
President: Neil Lipke
Treasurer/Secretary: Eric Lipke
Operations: Executive transport
Helicopters: 1-206B

Hartford Helicopters, Inc.
Brainard Airport
Hartford, CT 06114
☎ 203-522-1113 ♦ 203-247-2376
President: Robert O. Brewster
Chief Pilot: Rick Nelson
Director of Maintenance:
Donald Fisher
Marketing Manager: Tom Johanson
Safety Manager: Cliff Birdsey
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 4-S76A, 1-206B, 1-B222, 1-355F, 1-350D

Hawkins & Powers Aviation Inc.
P.O. Box 391
Greybull, WY 82426
☎ 307-765-4482 ☐ 551599
President: Daniel J. Hawkins
Operations Manager: Bobby J. Hawkins
Chief Pilot: Jerry S. Ewen
Chief of Helicopter Operations:
John D. Moberly
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Logging, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing
Helicopters: 4-H12E, 3-500D, 1-206B, 2-UH1B

Heavenly Valley Helicopters, Inc
P.O. Box 2180
Stateline, NV 89449
☎ 916-541-1330
President/General Manager:
William D. Killebre
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Herding/stock & wildlife, Photography, Sightseeing, Skiing
Helicopters: 1-500D

Heli-Air Inc.
204 Rue Napoleon
Broussard, LA 70518
☎ 318-856-8163 ☐ 5101010395
President: Gary J. Villiard



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HAI has entered the high tech world of information telecommunications. The Helicopter Hotline is running standard communications software on an IBM PC-AT compatible machine with two modem lines, 703-683-6488, 89 or telephone Ed DiCampli, Information Manager, for details on how you can hook-up to the Helicopter Hotline, (703) 683-4646. Keep up-to-date on the latest developments in the industry. It's the only way to stay one step ahead of the competition.

Vice President: David A. Brown
Director of Operations: Stanley Rose
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Offshore, Sightseeing
Helicopters: 1-206B, 2-206L

Heli-Chile Ltda.
Casilla 16-175
Santiago, Chile
☎ 224-3597 ☐ 340412
Chairman: Luis Silva de Balboa
President: Eduardo Silva de Balboa
Marketing Manager: Carlos Garcia
Operations Manager: Edward A. Jaeggi
Operations: Agriculture, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, Fire control/support, Forestry, general, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-B105, 1-500D, 1-206B

Heli-Jet Corporation
3830 Cross Street
Eugene, OR 97402
☎ 503-461-0310 ☐ 364419
President: Rod Kvamme
Chief Pilot: Tim Kelly
Director of Maintenance:
Tim McCartney
Marketing Manager: David Cann
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Repair station (FAA certified)
Helicopters: 6-205A

Heli Services (PTE) Ltd.
Building 193, East Camp
Seletar Airport
Singapore, 2879, Singapore
☎ 4815771 ☐ 25136

Managing Director: T.P. Lloyd
General Manager: J. Simler
Operations Manager: P.J. Latz
Engineering Manager: P.I. MacKenzie
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 1-330J, 1-B412, 5-B212, 3-206B, 3-315B, 1-B105

Heli Union
4 Avenue de la Porte de Sevres
Paris 75015, France
☎ 01-554-9290 ☐ 260902
President: Charles de Rochechouart
General Manager:
Christophe Marcilhacy
Marketing Manager: Dominique Lesourd
Operations Manager: Charles Schmitt
Technical Manager: Pierre Carnoy
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school
Helicopters: 19-313B, 12-315B, 19-316B, 7-341G, 2-350B, 4-355F, 14-365C, 7-365N, 2-S76A, 10-330J

The Helicopter Line Ltd.
P.O. Box 16
Dunedin, New Zealand
☎ 024-776829 ☐ 5393
Managing Director: Graham Gosney
Executive Director: Donald Spary
General Manager: Keith Mitchell
General Manager: Nigel Ower
Operations: Agriculture, Air taxi/charter (US part 135), Exploration, Fire control/support, Forestry, general, Herding/stock & wildlife, Offshore, Photography, Sightseeing, Skiing
Helicopters: 4-350B, 22-206B, 8-500D, 2-300C, 1-UH12ET

Manufacturer's Key Code/Manufacturer

313B	Aerospatiale	47G5	Bell	H12D	Hiller
315B	Aerospatiale	47H1	Bell	H12E	Hiller
316B	Aerospatiale	47J	Bell	269A	Hughes/Schweizer
316O	Aerospatiale	47J2	Bell	300B	Hughes/Schweizer
318C	Aerospatiale	47J3	Bell	300C	Hughes/Schweizer
319B	Aerospatiale	47K	Bell	500A	Hughes/McDonnell Douglas
321J	Aerospatiale	204B	Bell	500C	Hughes/McDonnell Douglas
330J	Aerospatiale	205A	Bell	500D	Hughes/McDonnell Douglas
330K	Aerospatiale	206A	Bell	500E	Hughes/McDonnell Douglas
330L	Aerospatiale	206B	Bell	550F	Hughes/McDonnell Douglas
332C	Aerospatiale	206L	Bell	KV107	Kawasaki
332J	Aerospatiale	B212	Bell	BK117	Kawasaki
332L	Aerospatiale	214B	Bell	B105	MBB
341G	Aerospatiale	214ST	Bell	BK117	MBB
350B	Aerospatiale	222B	Bell	R22	Robinson
350C	Aerospatiale	222UT	Bell	RH-100	Rogerson/Hiller
350D	Aerospatiale	412	Bell	S55T	Sikorsky
355E	Aerospatiale	BV44	Boeing Vertol	S58T	Sikorsky/California
355F	Aerospatiale	BV47	Boeing Vertol	S61L	Sikorsky
360C	Aerospatiale	B107	Boeing Vertol	S61N	Sikorsky
361	Aerospatiale	B234	Boeing Vertol	S62	Sikorsky
365	Aerospatiale	TCAT	Continental (Bell)	S64	Sikorsky
365N	Aerospatiale	F28A	Enstrom	S70C	Sikorsky
109A	Agusta	F28C	Enstrom	S76A	Sikorsky
47B	Bell	F28F	Enstrom	S76B	Sikorsky
47D	Bell	280C	Enstrom	SL12	Soloy
47G	Bell	280F	Enstrom	UH12E	Soloy
47G2	Bell	280FX	Enstrom	SL47	Soloy
47G3	Bell	1100	Fairchild	WASP	WASP
47G4	Bell	12E4	Hiller	WG30	Westland

Helicopter Minit-Men, Inc.
P.O. Box 21125
Columbus, OH 43221-0125
☎ 614-486-9309
President: Charles W. Thomas
Vice President: Victor J. Speroni
Operations Manager: James L. Murphy
Operations: Agriculture, External cargo, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 4-H12E, 2-500C

Helicopter Services of Jacksonville, Inc.
P.O. Box 11727
Jacksonville, FL 32239-1727
☎ 904-641-7398
President: Judy A. Smith
Chief Pilot: John McFarlane
Chief Mechanic: Mark Sunstrom
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 1-300C, 1-500C

Helicopter Systems, Inc.
P.O. Box 221
Scottdale, PA 15683
☎ 412-887-4000 ☐ 800-228-1108
President: Dwayne S. Bailey
Vice President/Director of Operations:
James M. Lawrence
Director of Maintenance:
Darryl J. Bates
Operations: Agriculture, Air taxi/charter (US part 135), Construction, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-204B, 2-206B

Helicopteros Andes S.A.
Casilla 10134
Correo Central
Santiago, Chile
☎ 226-3373 ☐ 340302
President: Jorge Lathrop
General Manager: Edmundo D. Laborde
Operations Manager:
Alex C. Casasempere
Maintenance Manager: Fritz H. Dreyer
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 3-500D, 1-206B3

Helicopteros de Guatemala
Ave. Hincapie 23-30, Zona 13
Aeropuerto La Aurora, Lado Este
Guatemala City, Guatemala
☎ 318282 ☐ 5676
Chief Executive Officer:
Rene Debroy
Administrative Manager:
Ricardo Morataya
Operations Manager:
Maria Eugenia Morataya
Chief Pilot: Enrique Haeussler
Operations: Agriculture, Air taxi/charter (US

part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 3-206B, 1-WASP

Helicopteros Nacionales de Colombia S.A.; "HELICOL"
Avenida El Dorado, No. 93-30
Piso 40
Bogota, Colombia
☎ 263-7504 ☐ 41225
General Manager: Raul Garcia
Operations Director: Luis E. Silva
Chief Pilot: Oscar Gomez
Operations: Air taxi/charter (US part 135), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 1-204B, 3-205A, 3-206B, 7-206L, 2-B212

Helicopters Inc.
8227 Gravois
St. Louis, MO 63123
☎ 314-351-1400
President: Stephen C. Lieber
Director of Operations:
Allen Barklage
Chief Pilot: John Hawkins
Director of Maintenance:
David Brown
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-206L1, 1-206L, 4-206B3, 1-206B2, 1-206A, 1-F28C-2, 1-F28A, 2-206L3

Helicopters Unlimited, Inc.
P.O. Box 4115
Oakland, CA 94614
☎ 415-632-9422 ☐ 172311
President: John J. McClelland
Vice President, Sales: Ross J. Fay
Secretary/Treasurer:
Teri R. McClelland
Chief Pilot: Timothy A. Tatman
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, EMS/air ambulance, Executive transport, External cargo, Government contracting, Offshore, Pilot training school, Repair station (FAA certified)
Helicopters: 2-206L, 5-206B, 1-109A, 4-F28C

Helicopters West, Inc.
P.O. Box 1083
Provo, UT 84603
☎ 801-377-6200
President: Craig F. Huntington
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Photography, Repair station (FAA certified), Skiing
Helicopters: 2-206B, 1-315B, 1-316B

HELIJET, S.A.
Avda. Independencia, 37
5001-Zaragoza, Spain
☎ 290330 ☐ 58136
President: Pedro de Wenetz
Operations Manager: Tomas Gallego
Chief Pilot: Vicente Rosello
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Forestry, general, Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 2-315B, 2-341G, 2-R22

Helijet Aero Taxi Ltda.
Av. Erasmo Braga, 255
12/13 Floors
Rio de Janeiro, CEP 20020, Brazil
☎ 021-224-7282 ☐ 02131050
Director: Roberto Lessa Bastos
Operations Manager: Nelson Rino Filho
Maintenance Manager:
Rinaldo J. Mascherpa
Safety Pilot: Gilberto O. Padilha
Operations: Air taxi/charter (US part 135), Executive transport, External cargo, Offshore, Pilot training school
Helicopters: 7-206B, 9-350B, 3-355F

Helikopter Service A/S
Elveveien 25 C
1324 Lysaker, Norway
☎ 02 590560 ☐ 76431
President: Emil Gamborg
Vice President Commercial Operations:
Jan Bengtson
Vice President of Offshore Operations:
Bjorn Moe
Vice President of Engineering:
Trygve Eidem
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Fire control/support, Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 19-S61N, 7-332L, 8-B212, 3-B234, 3-214B, 1-214ST

Helikopteripalvelu
Helsinki-Malmi Airport
00700 Helsinki, 70, Finland
☎ 90-372122
Managing Director: Dick Lindholm
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 4-206B, 1-206L, 1-360C, 2-R22H, 1-300C

Helimares Ltda.
Huelen 10, Piso 3, Oficina A
Santiago, Chile
☎ 2514185 ☐ 340346
President: Alberto Osorio
Operations Manager: Patricio Matamala
Maintenance Manager: Ricardo Boisier
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 1-B105

Helipad Aviation, Inc.
Dimensions Plus Helicopters
P.O. Box 1563
Ukiah, CA 95482-1563
☎ 707-468-5510
President: Timothy W. Morgan
Executive Vice President:
Beverly B. Morgan
Chief Pilot: David C. Spokely
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-500C, 1-R22, 1-500D, 2-206B

Helipad Aviation, Inc.
Alaska Operation
Ketchikan Int'l Airport
P.O. Box 9573
Ketchikan, AK 99901
☎ 907-225-6608
Alaska Operations Manager:
Douglas G. Vetch
Operations: Air carrier, Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Offshore, Photography, Sightseeing, Skiing
Helicopters: 1-500C, 1-500D, 2-206B3, 1-R22

Heliquip (PTY.) Ltd.
P.O. Box 18011
Rand Airport
Transvaal 1419, South Africa
☎ 011-827-8935 ☐ 4-29800
President: P. Piggott
Operations Manager: T.M. Thomas
Chief Pilot: A. Klootwyk
Technical Manager: W.J. McMurdo
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Herding/stock & wildlife, Logging, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring
Helicopters: 3-350B, 1-300C, 1-341G, 1-206B, 3-12E4

Heliservicio Campeche S.A. de C.V.
Citlaltepetl #27
Mexico, D.F., 06100, Mexico
☎ 905-553-6006 ☐ 017-72975
General Director:
Jorge Escalante King
Director of Administration:
Juan Antonio Gonzalez
Marketing: Carlos Zarate Angelini
Operations: Air carrier, Executive transport, Exploration, External cargo, Offshore, Photography, Repair station (FAA certified)
Helicopters: 9-B212, 3-206B3

HELISWISS, Swiss Helicopter Ltd.
Berne-Airport
3123 Belp, Switzerland
☎ 31-81-33-11 ☐ 911-655
President: K. Neuenschwander
Managing Director: K. Heinz
Commercial Manager: W. Demuth
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Law enforcement (for hire), Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-214B, 1-204B, 1-205A, 8-315B, 4-206B, 1-350B

Helitac Aviation, Inc.
1910 W. Sunset Boulevard
Suite 900
Los Angeles, CA 90026
☎ 213-483-6898
General Manager: M. V. Dreesman
Operations Manager: Richard Soto
Operations: Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, Photography
Helicopters: 2-206B, 1-206L, 1-500C

Helitron Corporation
P.O. Box 7771
Amarillo, TX 79114
☎ 806-374-1922
President: Julian Lee Bivins, III
Vice President: Gene Vaughn Morrison
Chief Pilot: Calum D. Falconer
Director of Maintenance:
Roy L. Hutto
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Exploration, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing
Helicopters: 1-500D

Helivalle Ltda.
Carrerra 11 #86-60, Oficina 202
Bogota, Colombia
☎ 257-0635 ☐ 45167
President: Miguel R. Espitia Espitia
Operations Manager:
Carlos F. Espitia Lloreda
Chief Pilot: Jaime Pinzon
Miguel J. Espitia Lloreda
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Executive transport, Exploration, External cargo, Government contracting, Offshore, Photography
Helicopters: 4-206B, 5-47G5

Helog Ltd. Helicopter-transports
P.O. Box 271
Kussnacht SZ, 6403, Switzerland
☎ 041 81 48 00 ☐ 868269 hel
President: Leo Caminada
Operations: Agriculture, Air carrier, Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Logging, Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 1-332C, 1-315B, 1-47G3

The Henley Group Inc.
Allard Drive
Manchester, NH 03103
☎ 603-627-4338
President: Paul Montrone
Aviation Department Manager:
Arthur Leibowitz
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-109A

Hermann Hospital-Life Flight
1203 Ross Sterling
Houston, TX 77030
☎ 713-797-4014
Director of Operations:
Bill LaChance
Associate Administrator: Ron Stutes
Chief Pilot: Steve Kinnaman
Operations: EMS/air ambulance
Helicopters: 5-355F

Heussler Air Service Corp.
9900 Porter Road
Niagara Falls, NY 14304
☎ 716-297-4497
President: Richard A. Hammond
Director of Operations:
Michael J. Knoll
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 3-47G5, 1-300C, 1-206B

High Tech Applications, Inc.
P.O. Box 510
Elkins, WV 26241
☎ 304-636-5774
President: Kendall C. Elliott
Chief Pilot & Secretary/Treasurer:
Dennis G. Peterson
Partner: Steven H. Blizzard
Partner: Brent D. Cayton
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Skiing
Helicopters: 1-206B

HiLine Helicopters Inc.
47225 Sauk Prairie Road
Darrington, WA 98241
☎ 206-436-1302
President: Anthony B. Reece
Operations: Air taxi/charter (US part 135), EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Sightseeing ***Helicopters:*** 1-500D

Dick Hill International Flight School, Inc.
P.O. Box 10603
Springfield, MO 65808
☎ 417/485-3474
President: Dick Hill
Vice-President: Rik Hill
Secretary-Treasurer: Marlene J. Hill
Operations: Herding/stock & wildlife, Photography, Pilot training school, Sightseeing, Traffic surveillance
Helicopters: 1-47D, 3-47G

Hillsboro Helicopters Inc.
3301A NE Cornell Road
Hillsboro, OR 97124
☎ 503-648-2831
President: Jerry V. Trimble
General Manager: Michael K. Moffitt
International Operations:
Marcel P. Schubert
Pilot/Instructor: James B. Griffin
Operations: Air taxi/charter (US part 135), Electronic news gathering, External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Photography, Pilot training school, Sightseeing, Traffic surveillance
Helicopters: 2-R22A, 1-R22B, 2-R22HP, 1-206B2, 1-206B3, 1-500D, 1-H12A

Horizon Helicopters Inc.
P.O. Box 7000
Kamloops, BC, V2C 6E1, Canada
☎ 604-554-3434 ☐ 048-8417
President: Gary J. Clark
Chief Engineer: Richard Dickie
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable)
Helicopters: 4-206B, 1-47B

Horsham Valley Airways, Inc.
451 Caredean Drive
Horsham, PA 19044
☎ 215-674-2100
President: Hoyt W. Bangs
Director of Maintenance:
Thomas J. Sullivan
Chief Pilot: Edward W. Malrey
Operations: Air taxi/charter (US part 135), Bank paper transportation, EMS/air ambulance, Executive transport, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 1-B222, 2-300C, 3-206B, 1-206L

Hospital Airtransport Inc.
Portland-Hillsboro Airport
P.O. Box 849
Hillsboro, OR 97123
☎ 503-640-8294
President: Tom Hutson
Director of Operations: Gary Ogle
Chief Pilot: Gene Hill
Director of Maintenance:
Tim Touchet
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), EMS/air ambulance
Helicopters: 5-109A

Houston Helicopters, Inc.
P.O. Box 830
Pearland, TX 77588-0830
☎ 713-485-1777 ☐ 790461
President: Felton M. Baker
Operations Manager: Jack D. Alexander
Director of Safety: Joe Pensyl

Director of Training:
Brian Cuddeback
Director of Marketing: Jim Shaw
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 6-206B3, 3-B212, 4-206L1, 1-S76A, 1-355F

Houston Pipe Line Company
P.O. Box 1188
Houston, TX 77001
☎ 713-654-6828 ☐ 910 881 6385
President: Gerald Bennett
Vice President of Operations:
Walker Sanders
Administrative Manager:
Barney L. Brasher
Helicopter Coordinator: Randy Hawley
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

Hydro-Quebec
75 West Dorchester
Montreal, PQ, H2Z 1A4, Canada
☎ 514-289-2858 ☐ 05561047
Conseiller Transport Aerien:
Pierre Pourciel
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Government contracting, Government agency (not for hire)
Helicopters: 6-206B, 4-318C

IBM Corporation
Flight Operations
Dutchess County Airport
Wappingers Fall, NY 12590
☎ 914-463-4400 ☐ 145362 ♦ 914-435-2729
Chief Pilot: Pete Griffith
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-B222

Idaho Helicopters, Inc.
2471 Commerce Avenue
Boise, ID 83705
☎ 208-344-4361
President: Ray J. Franz
Chief Pilot: Lavern Haney
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 2-206L, 3-206B, 1-315B, 1-350D, 2-UH12E

Illinois Dept. of Transportation
Division of Aeronautics
Capital Airport
Springfield, IL 62706
☎ 217-785-8380
Chief, Aviation Education & Safety:
Richard M. Ware
Director: Robert Coverdale
Manager of Aviation Development:
S. Duane Moore
Manager of Flight Operations:
Roscoe C. Armstrong
Operations: Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 2-206B, 1-206L, 1-S76B, 2-206L3

Illinois State Toll Highway Authority
2001 West 22nd Street
Oakbrook, IL 60521
☎ 312-654-2200
Chief Pilot: Robert M. Gaylord
Operations: Government agency (not for hire), Law enforcement (not for hire), Photography, Traffic surveillance
Helicopters: 1-206B

Indonesia Air Transport P.T.
P.O. Box 2485
Jakarta, Indonesia
☎ 418190 ☐ 46404
Managing Director: Indra Rukmana
General Manager: Peter Van Veen
Director: R. Soekardjono
Operations Manager: G. Tschernitz
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable)
Helicopters: 1-318C, 4-316B, 2-365C

Industrial Helicopters, Inc.
P.O. Box 90210
Lafayette, LA 70509-0210
☎ 318-233-3356
President: J. Oran Richard
Operations Manager: Charles A. Phipps
Director of Maintenance:
Michael K. Guidry
Chief Pilot: Kenneth R. Jones
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 5-206B, 3-206L, 2-SL47

Infinity Aviation, Inc.
P.O. Box 757
Lincoln, CA 95648
☎ 916-645-8117 ☐ 467716
President: Richard L. Fleischer
Chief Pilot: Scott Baker
Service Manager: Jerry McKown
Parts Manager: Ted Nofer
Operations: Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 1-206B3, 1-500D

Inland Aero Service, Inc.
16 Union Street
Batavia, NY 14020
☎ 716-343-4471

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Operations: Agriculture
Helicopters: 2-B47G, 1-TCAT

International Air Transport Incorporated
2404 Merrill Field Drive
Anchorage, AK 99501
☎ 907-272-5425 ☐ 26485
President: J. Haugen
Operations: Agriculture, Air taxi/charter (US part 135), Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Skiing
Helicopters: 4-341G, 2-500C

International Union of Operating Engineers Local No.138
P.O. Box 206
Gazza Building
Farmingdale, NY 11735
☎ 516-694-2480
Vice President: Gerald J. Quill
Operations: Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Offshore
Helicopters: 1-206B

Irish Helicopters, Ltd.
Westpoint Hangar
Dublin Airport
Dublin, Ireland
☎ 376473 ☐ 33144
Director/General Manager:
Capt. F. Laycock
Operations Manager: Ronald Sivewright
Engineering Manager:
Michael Fitzgerald
Commercial Manager:
Frederick W. Balcombe
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-B105, 1-206B3, 1-B212, 2-S61N

Island Express, Inc.
P.O. Box 20001
Long Beach, CA 90801
☎ 213-491-5550
President: J. J. Feinberg
Director of Operations:
John E. Moore
Operations: Air taxi/charter (US part 135), Executive transport, Photography, Sightseeing
Helicopters: 1-206L, 1-206B

Island Helicopter Corporation
North Avenue
Garden City, NY 11530
☎ 516-228-9355 ☐ 146375
Chief Executive Officer/President:
Emil V. Cianciulli
V.P., Flight Operations/Chief Pilot:
Robert E. Chaves
Vice President, Finance:
Peter McGann
Vice President, Sales/Marketing:
Donald Gault
Vice President, Technical Services:
Patrick Mallen
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Electronic news gathering, EMS/air ambulance, Executive transport, Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 6-206L, 2-206B, 4-355F, 2-350D, 8-360C, 4-S58T, 1-109A

J & J Maintcnance Inc.
1924 S. First Street
Austin, TX 78704
☎ 512-444-7271
Vice President: Johnny Voudouris
Operations: Government contracting, Private owners
Helicopters: 1-500D

J.F.C. Helicopter, Inc.
(J. Fletcher Creamer & Son, Inc)
799 River Road
Edgewater, NJ 07020
☎ 201-943-4200
President/CEO:
J. Fletcher Creamer, Jr.
Aviation Department Manager/Chief Pilot:
Stuart C. De Leeuw
Operations: Air taxi/charter (US part 135), Executive transport
Helicopters: 1-350D

Jayrow Helicopters Pty. Ltd.
P.O. Box 46, Mentone
Victoria, 3194, Australia
☎ 587-1833 ☐ AA33019
Managing Director: Lindsay Rose
General Manager: Cliff Dohle
Chief Pilot: Peter Clemence
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pilot training school
Helicopters: 7-206B, 2-350B

S.C. Johnson Son, Inc.
Aviation Section
2925 Golf Avenue
Racine, WI 53404
☎ 414-631-2707 ☐ 264429
Aviation Manager: S. K. Kazarian
Helicopter Captain: Robert Root
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

KCRA TV - Kelly Broadcasting
310 10th Street
Sacramento, CA 95814
☎ 916-444-7300
President: Jon Kelly
Operations Manager: Don Saraceno
Chief Pilot: Daniel Shively
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Traffic surveillance
Helicopters: 1-206B

Kenai Air Alaska, Inc.
155 Granite Point Court
Kenai, AK 99611-3921
☎ 907-283-7561 ☐ 26507
President: Craig R. Lofstedt
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Herding/stock & wildlife, Offshore, Repair station (FAA certified)
Helicopters: 2-B212, 2-205A, 1-206L, 8-206B, 1-500E

Keystone Helicopter Services
1420 Phoenixville Pike
West Chester, PA 19380
☎ 215-644-4430 ☐ 5106685061
Chairman of the Board:
Peter Wright, Sr.
President: Peter Wright, Jr.
Vice President/General Manager:
Michael D'Aries
Director of Marketing: Mark McCorkle
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 1-206B, 1-206L, 1-B105, 3-S76A, 2-BK117, 1-B222, 1-109A, 1-500E

Kirby N.Y. Realty Company
Suffolk County Airport
Hangar "C"
Westhampton Beach, NY 11978
☎ 516-288-4053
Chief of Helicopter Operation:
Elias Ullmann
Chief of Maintenance: Greg Gaden
Operations: Corporate (US part 91, not for hire), Private owners
Helicopters: 1-206L3

KLM Helikopters B.V.
P.O. Box 7700
1117 ZL Schipol-East, The Netherlands
☎ 20-491339 ☐ 14233
Managing Director: Frans Bokma
Deputy Managing Director:
M.M.D. van Eeghen
Marketing Manager: M.J. van der Woude
Technical Manager:
P.W.J. van de Splinter
Operations: Construction, Executive transport, External cargo, Government contracting, Offshore, Photography, Repair station (FAA certified)
Helicopters: 8-S61N, 4-S76A

Knight Aviation Services, Inc.
7000 W. Camino Real
Boca Raton, FL 33433
☎ 305-734-4199
President: William L. Knight
Vice President/Treasurer:
Kevin M. Carroll
Director of Operations/Chief Pilot:
Gary M. Hogan
Operations: Air carrier, Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Electronic news gathering, Executive transport, Exploration, Forestry, general, Photography, Sightseeing
Helicopters: 1-206L3

Knoell Bros. Construction, Inc.
P.O. Box 21287
2401 S. 24th Street
Phoenix, AZ 85036
☎ 602-275-7429
Chairman of the Board:
Frank E. Knoell, Jr.
President: Thomas E. Knoell
Chief Pilot: Paul E. Uster
Chief of Maintenance: Larry Thomas
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-B222

KPNX Television, Inc.
P.O. Box 711
Phoenix, AZ 85001
☎ 602-257-1212
Chief Pilot: Jerry Foster
Operations: Electronic news gathering, Traffic surveillance
Helicopters: 1-500D

Kumpulan Guthrie Sendirian Berhad
Wisma Guthrie
P.O. Box 12516
Kuala Lumpur, 50780, Malaysia
☎ 03-2541644 ☐ 30346
Operations Manager: H.M. McMichael
Chief Pilot: Nasir Ma Lee
Operations: Agriculture, Executive transport
Helicopters: 1-206L

Lakeland Helicopters Ltd.
P.O. Box 370
Taupo, New Zealand
☎ 074-84532 ☐ 63279
Managing Director: Geoff Prince
Chief Pilot: Toby Clark
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-369D, 1-206B, 1-350D

Lapplandsflyg/Lapair AB
Umea Airport
Umea, 90254, Sweden
☎ 90-129050 ☐ 54029
President: Bertil Johansson
Operations Manager: Gunnar Forsberg
Maintenance Manager: Tage Stoltz
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Herding/stock & wildlife, Mechanic training school, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-47G2, 1-206L, 2-206B, 1-500D, 1-300C

Lehigh Valley Helicopter, Inc.
P.O. Box 509
Allentown, PA 18105
☎ 215-398-2988
Operatons Manager: John R. Forsht
Operations: Executive transport, Photography
Helicopters: 1-F28A

Liberty Helicopters Inc.
P.O. Box 2041
Point Roberts, WA 98281
☎ 604-946-5581 ☐ 04-355577
President/Chief Pilot: Don Crowe
Operations Manager: Cynthia Vernall
Operations: Air taxi/charter (US part 135), Exploration, Forestry, general
Helicopters: 1-B212

Lider Taxi Aereo S.A.
Ave. Santa Rosa No. 123
Pampulha
Belo Horizonte, Brazil
☎ 031-441-9088 ☐ 031 1275
President: Jose A. Assumpcao
Director: Walter A. Barro
Operations Manager:
Gilberto F. Miranda
Chief Pilot: Wanderley S. Gandra
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 4-205A, 12-206B, 2-558T, 8-B212, 3-B222, 1-206L3

Lloyd Helicopters (Pte.) Ltd.
1 Colombo Court #09-03
Singapore, 0617, Singapore
☎ 3382123 ☐ 23735
Managing Director: Pat Lloyd
Operations:
Helicopters: 1-206B, 3-315B

Lone Star Helicopters, Inc.
Love Field, P.O. Box 25
Dallas, TX 75235
☎ 214-352-1033 ☐ 753768
President: Don Jones
Vice President: Len Legge
Director of Maintenance: Joe Noland
Director of Operations: Larry Stone
Comptroller: Connie Pruett
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 4-206B, 1-206L

Louisiana-Pacific Corp.
1840 Airport Boulevard
Red Bluff, CA 96080
☎ 916-527-1371
President: Harry A. Merle
Operations Manager: Montel Work
Chief Pilot: Wayne N. Hughes
Chief Pilot/Fixed Wing: David Dix
Operations: Corporate (US part 91, not for hire), Executive transport, Forestry, general
Helicopters: 3-206B, 1-206L3

Lufttransport A/S
P.O. Box 2008, N-9014 Haapet
Tromsoe, Norway
☎ 083-70022 ☐ 75885
President: Aage Krog
Executive Vice President:
Ragnar Johansen
Vice President/Technical:
Svein Bertheussen
Flight Operations Manager:
Tore Skaar
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 6-332L, 2-B212, 1-B214, 2-205A, 3-206B, 2-350B

Mack Trucks, Inc.
c/o Bethlehem Steel Aviation
Rural Delivery #4
Allentown, PA 18103
☎ 215-439-2102 ☐ 847429
Chief Pilot: A. Decker Goetz
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B212

Macmillan Bloedel Ltd.
Flight Operations
5220 Airport Road
Richmond, BC, V7B 1B4, Canada
☎ 604-278-4807
Chief Helicopter Pilot: Doug Hare
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Magnum Leasing & Mortgage Corp.
61 Spit Brook Road
Nashua, NH 03060
☎ 603-888-6500
President: Ronald McLaren
Aviation Department Manager:
Ted Cieplik
Operations: Air taxi/charter (US part 135), Executive transport
Helicopters: 1-206B

Malaysian Helicopter Services Bhd
Syed Kecik Foundation Building
Jalan Kapas, Bangsar
59100 Kuala Lumpur, Malaysia
☎ 2542044 ☐ 31809
Executive Director: Wan Malek Ibrahim
Flight Operations Manager:
Peter Wong
Engineering Manager: Moghni Rahmat
Operations: Offshore
Helicopters: 5-S61N, 3-S76A, 4-330J

Maple Leaf Helicopters (Canada)
5455 Airport Road South
Richmond, BC, V7B 1B5, Canada
☎ 604-270-4143
President: Don Plaunt
Marketing & Operations: Joe Barr
Operations: Air carrier, Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry,

general, Government contracting, Government agency (not for hire), Logging, Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 1-204B, 2-206B

Maui Helicopters Inc.
P.O. Box 1002
Kihei, HI 96753
☎ 808-879-2622
President: Dale Vercelli
Operations: Air taxi/charter (US part 135), External cargo, Government contracting, Law enforcement (for hire), Photography, Sightseeing
Helicopters: 2-500D

McMahon Helicopter Services
Executive Heliport Building
8351 Ronda Drive
Canton, MI 48187
☎ 313-459-5980
President: Brian McMahon
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: 3-206B, 1-206L

Metro Copters Incorporated
10740 Pine Bluff Road
Whitmore Lake, MI 48189
☎ 313-231-3861
President: Patrick J. Monks
Secretary: Dianne Monks
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Photography, Private owners, Traffic surveillance
Helicopters: 1-500C, 1-280C

Metropolitan Dade County Fire Department
6000 S.W. 87th Avenue
Miami, FL 33157
☎ 305-233-5000
Chief Pilot: Robert Apte
Flight Medic Trainer:
Lt. Daniel Cuoco
Operations: EMS/air ambulance, Fire control/support
Helicopters: 1-B412

Metropolitan Helicopter Service
952 Holmdel Road
Holmdel, NJ 07733
☎ 201-946-8134
President: Evaristo Cruz, Sr.
Operations Manager: Nick Ferrante
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-206L

Mid-State/Executive Helicopters, Inc.
1537 Beaver Ruin Road
Norcross, GA 30093
☎ 404-564-1901
Owner/President: Jack Hereth
Director of Operations:
Richard L. Santmyer
Chief Pilot: Mike Ward
Chief Mechanic: Keith Smith
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Traffic surveillance
Helicopters: 3-206B, 5-300C, 1-500D

Mid Valley Helicopters, Inc.
397 Talbot Road S.E.
Jefferson, OR 97352
☎ 503-327-1169
President: Frank Gilmour
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: 2-206B

Midland Helicopters Inc.
104 S. Pecos
Midland, TX 79701
Owner-Pilot: Carty Beal
Operations: Corporate (US part 91, not for hire), Private owners
Helicopters: 1-206L3

Midwest Helicopter Airways, Inc.
Midwest Heliport
525 Executive Drive
Hinsdale, IL 60521
☎ 312-325-7860 ☐
President: Richard J. Smith
Vice President: Jack C. Hansen
Secretary/Treasurer: Sue L. Smith
Chief Pilot: Benjamin J. Moore, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Logging
Helicopters: 2-558T, 2-558J, 1-206L

Milliken & Company
P.O. Box 567
Greer, SC 29652
☎ 803-877-8338 ☐ 570357
Chief Pilot: David V. Howell
Pilot: William D. Robinson
Pilot: Louis L. Sexauer
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-876A

Million Air
4300 Westgrove
Dallas, TX 75248
☎ 214-248-1600 ☐ 79-1618
President/CEO: Carlton Vickery
General Manager: Carl Paris
Director/Helicopter Operations:
Roland Jarvis
Helicopter Sales: James Browning
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Photography, Private owners, Sightseeing
Helicopters: 3-350D, 1-350B

Minnkota Power Co-op, Inc.
P.O. Box 1318
Grand Forks, ND 58206-1318
☎ 701-795-4430
President: Lyle Lund
Operations Manager: Ray Schafer
Pilot: Tom Cochran
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206B

Mobil Oil Canada, Ltd.
P.O. Box 800
Calgary, AB, T2P 2J7, Canada
☎ 403-268-7687 ☐ 6108210561
Aviation Manager: R.M. McNichol
Operations: Corporate (US part 91, not for hire), Exploration, Offshore

Mobil Oil Corporation
100 First Stamford Place
P.O. Box 10160
Stamford, CT 06904-2160
☎ 203-528-7116 ☐ 516906 ♦ 203-528-7162
General Manager: D.E. Coffman
Aviation Advisor/Helicopters:
Carey Howard
Chief Aviation Advisor/Maintenance:
James C. Bennet
Operations: Corporate (US part 91, not for hire)

Mobil Oil Exploration & Producing Southeast, Inc.
Aircraft Operations Department
1200 Youngs Road
Morgan City, LA 70380
☎ 504-384-9550 ☐ 8109505716
Aviation Manager: T.D. Rhodes
Chief Pilot: W.G. Odom
Chief of Maintenance:
B.R. Timberlake
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: 1-S76A, 3-355F, 7-206L, 1-206B

Mobil Producing Services Producing E.A. Inc.
Hangar 505
West Camp - Seletar Airport
Singapore 2879, Singapore
☎ 481-5015 ☐ 34677
Chief Pilot: Ray C. Westcott
Transportation Manager:
Jon H. McBride
Operations: Executive transport, Exploration, Offshore
Helicopters: 2-332C

Monterey Peninsula Helicopters
312 W. Carmel Valley Road
Carmel Valley, CA 93924
☎ 408-659-3898
President: Michael P. Marquard
Vice President:
Robert E. McDonald, III
Secretary-Treasurer:
Diane R. Marquard
Chief Pilot: Robert L. Eversmann
Operations: Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for

hire), Photography, Sightseeing
Helicopters: 1-300C, 1-206B

Motorflug GmbH
Airport Baden-Baden
P.O. Box 2080
Baden-Baden 7570, West Germany
☎ 7221-61003-5 ☐ 781129
President: Christoph von Barner
Purchasing Manager: Georg Krome
Technical Publications:
Gerhard Herrmann
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Mechanic training school, Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 2-206B

Mountain Bell Flight Operations
8845 Montview Boulevard
Denver, CO 80220
☎ 303-398-5353
Director, Corporate Aviation:
Richard Bucknell
District Mgr., Network Switch Services:
Robert L. Henderson
Chief Pilot: Mike Fergione
Manager, Aircraft Maintenance:
Terry E. Edwards
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, External cargo, Patrol (power, pipeline, buried cable)
Helicopters: 1-206L

NASA
Ames Research Center
Mail Stop 200-3
Moffett Field, CA 94035
☎ 415-965-5066
Director/Aerospace Systems:
C. Thomas Snyder
Chief/Rotorcraft Flight Investigations:
William Snyder
Chief/Advanced Plan & Program Office:
John Zuk
Chief/Rotary Wing Aeromechanics:
William Warmbrodt
Operations: Government agency (not for hire)
Helicopters: 2-B205, 1-206B, 1-500A, 1-S61N

National Utility Helicopters Ltd. P.T.
Jalan Suryopranoto No. 11-G
Jakarta, Pusat, Indonesia
☎ 4815188 ☐ RS36996
President: Rusmiputro Wibisono
Operations Manager: Richard Alzetta
Maintenance Manager:
Barry McCutcheon
Maintenance Manager: James Faulks
Branch Manager: Vince Ko
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 7-205A, 1-206B

New Hampshire Helicopters, Inc.
Foss Lane, P.O. Box 1030
Hampton, NH 03842
☎ 603-926-4949
President: Stephen W. Foss
General Manager: George F. Vincent
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Photography, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-206B, 1-206L1, 1-B222

New Horizons Aviation Inc.
P.O. Box 30353
Cincinnati, OH 45230
☎ 513-232-1835
President: William L. Bowman
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: 1-F28

New Jersey Bell Telephone Co.
540 Broad Street, Room 1400
Newark, NJ 07101
☎ 201-649-2813
Manager, Service Bureau:
John J. White
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

New York State Police
State Campus
Building 22
Albany, NY 12226
☎ 518-457-5929
Director of Operations:
Col. Gary E. Preston
Lt. L. Grosso
Lt. J. McNamara
Lt. T.C. Grover
Operations: EMS/air ambulance, Executive transport, Government agency (not for hire), Law enforcement (not for hire), Photography, Traffic surveillance
Helicopters: 1-B222A, 1-B222UT, 2-B206L1, 1-206L3, 1-47G3

NOVA an Alberta Corporation Aviation Department
P.O. Box 2330
Edmonton, AB, T5J 2R1, Canada
☎ 403-423-8266
Aviation Manager: Doug Godsman
Chief Pilot: Ian McLeod
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-206B, 2-AS355

Nor Air, Inc.
Benton Hill Road
Sharon, CT 06069
☎ 203-364-0450
President/Owner: James E. Sinclair
Chief Pilot: Owen R. Jones
Public Relations: Sharon L. Jones
Operations: Agriculture, Corporate (US part 91, not for hire), Exploration, External cargo
Helicopters: 1-341G, 1-47G2

Northrop Corporation Electro-Mechanical Division
500 E. Orangethorpe Avenue
Anaheim, CA 92801
☎ 714-441-4027 ☐ 655417
Administrator/Helicopter Ops.:
Todd A. Miller
Operations: Government contracting, Government agency (not for hire)
Helicopters: 1-B212

Norwegian Air Ambulance
P.O. Box 94
1441 Drobak, Norway
☎ 02-93-21-60 ☐ 72458
President: Tor Eggesvik
General Manager: John G. Mjavatn
Operations Manager: Roy Estensen
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Law enforcement (for hire), Photography, Sightseeing, Traffic surveillance
Helicopters: 3-B105, 1-206B

Okanagan Helicopters, Ltd.
4391 Agar Drive
Richmond, BC, V7B 1A5, Canada
☎ 604-278-5502 ☐ 04355594
President & General Manager:
Pat A. Aldous
Senior V.P. Marketing: Fred A. Moore
General Manager, Operating Div:
Dick Everson
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government agency (not for hire), Logging, Mechanic training school, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 71-206B, 7-206L, 3-205A, 11-B212, 2-214S, 12-S76A, 10-S61N, 2-332C

Omniflight, Inc.
105 Wappoo Creek Drive
Suite 1-A
Charleston, SC 29412
☎ 803-762-1620
Chairman: Daniel Parker
Executive Vice President:
Ron Wisner
Vice President: Bruce Stoehr
Director, Maintenance Services:
Hans Hilkhuysen
President, Omniflight Airways, Inc.:
Dan McKenzie
President, Omniflight Offshore, Inc.:
John Davis
Vice Pres./Omniflight Helicopter Services:
Charlie Robinson
Vice Pres./Omniflight Helicopters, Inc.:
Mark Whittman
Operations: Agriculture, Air taxi/charter (US part 135), Commuter/scheduled, Electronic news gathering, EMS/air ambulance, Executive transport, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Pilot training school, Repair station (FAA certified)
Helicopters: 3-WG30, 25-206B, 15-206L, 5-B222, 2-B212, 8-B105, 5-BK117, 1-500E, 9-300C

Onandaga County Sheriff's Department
Cessna Drive, Hangar 1
Warners, NY 13164
☎ 315-425-3095
Major: J.A. Mehlek

Operations Manager: P.C. Zemenz
Chief Pilot: Carl L. Mosegard
Chief Mechanic: Henry Newman
Operations: EMS/air ambulance, Law enforcement (not for hire), Photography, Traffic surveillance
Helicopters: 1-206B

Ontario Hydro
Hangar 10
2450 Derry Road East
Mississauga, ON, L5S 1B2, Canada
☎ 416-677-1330 ☐ 06-217662
Superintendent, Helicopter Services:
J.R. Benben
Supervisor, Helicopter Maintenance:
W. Hopper
Manager/Central Maintenance:
W. Andrew Humphries
Pilot Supervisor: John M. Carnie
Operations: Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Patrol (power, pipeline, buried cable), Photography
Helicopters: 2-S58T, 5-206B, 1-206L1

Orlando Helicopter Airways, Inc.
P.O. Box 2802
Orlando, FL 32802
☎ 305-841-3480 ☐ 564400
President: Fred P. Clark
Senior Vice President: Bradley Clark
Vice President/Marketing:
Troy Simmmons
Secretary/Treasurer: Nora Schmidt
Operations: Construction, External cargo, Repair station (FAA certified)
Helicopters: 1-S58T, 2-S55, 1-S52A

Ostermans Aero AB
Box 422
Jarfalla, S-175 25, Sweden
☎ 08-7602720 ☐ 17294
President: Ragnar Friniodig
Technical Director: Henrik Elinder
Director of Operations:
Bengt Billing
Chief Pilot: Bo Isakson
Operations: Air taxi/charter (US part 135), Commuter/scheduled, Construction, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing
Helicopters: 3-206L, 1-206B, 1-280C, 1-222UT

PacifiCorp Trans, Inc.
851 S.W. 6th Avenue
260 PFFC Building
Portland, OR 97224
☎ 503-243-7075 ☐ 9104641594
President: Karl Hoffman
Vice President/Operations:
James E. Sites
Senior Captain/Helicopters:
John L. Judge
Chief Pilot: Allen R. Duckett
Operations: Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable)
Helicopters: 1-109A, 1-500D

Pacific Lumber & Shipping Co.
P.O. Box 21785
Seattle, WA 98111
☎ 206-682-7262
President: Charles L. Spence
Operations Manager:
Michael S. Davenport
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, External cargo, Forestry, general, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 1-206B

Pan American World Airways
200 Park Avenue
Room 530
New York, NY 10166
☎ 212-880-1017
System Director Interline/Commuter Sales:
John M. Bloodworth
Operations: Air carrier, Air taxi/charter (US part 135)
Helicopters: 1-WG30, 2-WG60

ParkCentre Properties
485 Carnegie Drive
San Bernadino, CA 92408
☎ 714-381-5301
Director Helicopter Operations:
Jim Lloyd
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-500D

Pasadena Police Department Helicopter Section
142 N. Arroyo Parkway
Pasadena, CA 91103
☎ 818-405-4625
Officer in Charge: Nick J. Agosta
Second in Charge: T.M. Blumenthal
Accounting Officer: Dennis M. Henslee
Operations: Government agency (not for hire), Law enforcement (not for hire), Photography
Helicopters: 3-F28C, 1-F28A, 1-206B3

Pay-Jay Air, Inc.
207 S. Fourth Street
Artesia, NM 88210
☎ 505-748-1331
President: Peggy A. Yates
Vice President: John A. Yates
Chief Pilot/Director of Operations:
Wallace (Van) Nicholas
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Private owners, Sightseeing
Helicopters: 1-350B

Pegasus Helicopters Inc.
1700 Poole Boulevard
Yuba City, CA 95991
☎ 916-671-1500
President: Samuel A. Nevis
Vice President: Fred Young
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Sightseeing
Helicopters: 1-500D

Pelita Air Service, P.T.
Jl. Abdul Muis 52-54
Jakarta, 10160, Indonesia
☎ 375908 ☐ 46462
Director: W. Mulyono
Operations Manager: Capt. Oediyono
Technical Manager: Othman Moelia
Marketing Manager: Capt. Karsono
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Government contracting
Helicopters: 13-330J, 12-500C, 5-B105, 4-S76A, 4-330J, 4-332J, 29-B105

Perkinson Copters, Inc.
P.O. Box 338, PCI Heliport
Warrensburg, IL 62573
☎ 800-673-4323
President: Roy S. Phillips
Operations: Agriculture, Air taxi/charter (US part 135), Electronic news gathering, Fire control/support, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Pilot training school
Helicopters: 3-300C

Petroleos Mexicanos
Apartado Postal 30-285
Admon. Correos 39
Mexico, D.F., Mexico
☎ 7-63-50-47 ☐ 01777216
President/CEO: Ismael Avalos Jimenez
Chief of Operations:
Pedro Martinez Skossowski
Jose Luis B. Hermosillo
Operations: Commuter/scheduled, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Government agency (not for hire), Offshore, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 7-330J, 11-S76A, 11-B212, 2-206B, 2-316B, 1-205A

Petroleum Air Services (PAS)
P.O. Box 2711
Cairo, Egypt
☎ 609058 ☐ 21404
Chairman & Managing Director:
Amir Riad
Deputy Managing Director:
Mohsen Hassan
Assistant Managing Director:
Tameem Fahmy
Technical Support Manager:
Robert Ingle
Operations: Commuter/scheduled
Helicopters: 14-B212, 6-206L, 2-206B, 1-B222

Petroleum Helicopters, Inc.
P.O. Box 90808
Lafayette, LA 70509
☎ 318-235-2452 ☐ 586670
Chairman of the Board:
Robert L. Suggs
President: Frank W. Lee
Vice Chairman of the Board: M.M. Bayon

Vice President/General Manager:
Carl Dougherty
Chief Pilot: Vernon E. Albert
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 96-206B, 115-206L, 34-B212, 35-355F, 14-B412, 33-350D, 8-B222, 2-214ST, 14-B105, 9-330J, 19-S76A

Pfizer, Inc.
P.O. Box 7350
West Trenton, NJ 08628
☎ 609-771-0550
Chairman of the Board & CEO:
E.T. Pratt
Aviation Manager: Gene A. De Carlo
Chief Pilot/Helicopters:
Robert D. Pongrac
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-365N

Phoenix Air Corporation
2925 Briarpark, Suite 500
Houston, TX 77042
☎ 713-784-2420 ☐ 791449
Manager of Flight Services:
Michael D. Baskin
Operations: Air taxi/charter (US part 135), Bank paper transportation, Executive transport, Exploration, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-350D

Pine Belt of the Sierras, Inc.
P.O. Box 10768
Reno, NV 89510
☎ 702-322-8558
President: David Douglass
Director of Operations/Chief Pilot:
Ron Crowe, Sr.
Director of Marketing: Jenny Johnson
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Sightseeing
Helicopters: 1-350B, 1-206B3, 1-47G3, 1-500D

Pirelli S/A
Alameda Barao de Piracicaba, 740
Sao Paulo, 01216, Brazil
☎ 220-8011 ☐ 011-21722
Operations Manager:
Carlo de Bellegarde
Operations: Corporate (US part 91, not for hire), Executive transport, Repair station (FAA certified)
Helicopters: 2-206B

Port Authority of New York and New Jersey
121-B Billy Diehl Road
Teterboro Airport
Teterboro, NJ 07608
☎ 201-288-2761 ♦ 201-288-0308
Manager of Heliports:
Philip J. Landi
Operations: Government agency (not for hire)
Helicopters: 1-B105, 1-B222, 1-222U

Portland General Electric Company
121 S.W. Salmon Street
Portland, OR 97204
☎ 503-226-8820
President: William Lindblad
Vice President: H. Lueddeman
Facilities Manager: Lee Hodges
Corporate Pilot: Bill Griffiths
Operations: Corporate (US part 91, not for hire), Patrol (power, pipeline, buried cable)
Helicopters: 1-B105

PT Gatari Hutama Airservice
Hanurata Graha Bldg., 7th Floor
Jl. Kebon Sirih 67-69
Jakarta 10340, Indonesia
☎ 330190 ☐ 48476
President: Hutomo M. P
General Manager: Kabul Riswanto
Chief Pilot: Harry Purnomo
Lead Mechanic: Mr. Suharyanto
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Forestry, general, Offshore
Helicopters: 8-B412, 3-B212, 2-206B, 9-B212

Ptarmigan Helicopters, Inc.
1553 Snyder Gulch Road
Evergreen, CO 80439
☎ 303-674-2487
President: David F. Youngblood
Vice President: David A. Youngblood
Director of Maintenance:
Jack Whitworth
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-SL47, 1-315B, 1-206B3

Public Service Co. of Colorado
8645 Montview Boulevard
Denver, CO 80220
☎ 303-329-1032
Aviation Operations Manager:
H.E. (Hal) Ravnsborg
Senior Helicopter Pilot:
Richard Van Dusen
Helicopter Pilot: Patrick Parkhill
Senior Aircraft Mechanic: Bob Wells
Operations: Corporate (US part 91, not for hire), Patrol (power, pipeline, buried cable)
Helicopters: 1-206B3, 1-206L3

Public Service Company of Indiana
1000 E. Main Street
Plainfield, IN 46168
☎ 317-838-1575
Director of Operations Support:
Bob Fox
Chief Pilot: James F. Friday
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Forestry, general, Patrol (power, pipeline, buried cable), Photography
Helicopters: 2-206B

Public Service Electric and Gas Company
80 Park Plaza, T-12A
Newark, NJ 07101
☎ 210-430-6059 ☐ 710-995-4442
Manager, Administrative Operations:
C. Richard Jaggers, Jr.
Vice President, Trasmission & Distribution:
Randolph D. Stys
Chief Pilot: John T. James
Operations: Corporate (US part 91, not for hire), EMS/air ambulance, Patrol (power, pipeline, buried cable), Photography
Helicopters: 1-350D, 1-355F

Puget Sound Helicopters Inc.
8535 Perimeter Road South
Seattle, WA 98108
☎ 206-762-8273
President: Paul Brendle, II
Operations: Executive transport, Law enforcement (for hire), Photography, Repair station (FAA certified), Traffic surveillance
Helicopters: 1-500D, 1-280C, 1-F28A

Pumpkin Air, Inc.
P.O. Box 1110
Addison, TX 75001-1110
☎ 214-233-6464 ☐ 511014
President: Hugo W. Schoellkopf, Jr
Vice President/General Manager:
Thomas M. Ramirez
Director of Technical Services:
Allen Dales
Director of Operations:
Lloyd Heckmann
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 3-S76A, 2-B212, 3-B412, 3-350D, 26-206L, 21-206B, 4-B105, 2-222UT, 1-355F

Rambling Rotors, Inc.
Route 2, P.O. Box 2744
La Grande, OR 97850
☎ 503-963-5644
President: William L. Knight
Vice President: Kemit Knight
Chief Pilot: Michael A. Holtsclaw
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 2-206B, 1-206L, 1-350D

Rancon Realty Fund IV & V
2061 Business Center Drive
Suite 213
Irvine, CA 92715
☎ 714-833-3200
Managing Partner: John E. Quinton
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Private owners
Helicopters: 1-500D

Building a strong foundation takes time and energy

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Forty years ago John Slattery began collecting helicopter information and models. Today this collection is the most extensive in the world.

You can see it at the HAI headquarters in Alexandria, Virginia. Known as the Helicopter Foundation International's Archives, this collection includes more than 1,500 helicopter models, 20,000 international documents, books, and memorabilia.

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In 1983, HAI created the Helicopter Foundation International to acquire, maintain, and promote interest in the archives. It costs thousands each year to operate the center. That money comes solely from donations.

Find out how you can contribute to this important collection. Contact HAI founder Joseph G. Seward, Chairman of the Founders Committee, c/o HAI, 1619 Duke St., Alexandria, VA 22314-3406, (703) 683-4646.

RCA Corporation
Mercer County Airport
Trenton, NJ 08628
☎ 609-882-3420 ☐ 642220
Director/Corporate Aviation:
Anthony M. Penizotto
Chief Pilot: William C. Furey
Chief of Maintenance:
William M. Meyer
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 2-S76A

Reavcom Services Inc.
Spring Valley Airport
Smith Road
Spring Valley, NY 10970
☎ 212-344-7920 ☐ 7105812436
President: Thomas E. Christman
Aviation Manager:
Edwin W. Fuller, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Corporate (US part 91, not for hire), Executive transport, Photography
Helicopters: 1-206B

Recon Air, Inc.
P.O. Box 815695
Dallas, TX 75381-5695
☎ 214-960-8600 ☐ 6502478623
President: C. Keith Thompson
Vice President: Timothy J. McKenna
Operations: Air taxi/charter (US part 135), Exploration, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: 2-206B

Redding Air Service, Inc.
Municipal Airport
6831 Airway Avenue
Redding, CA 96002
☎ 916-221-2851
President: J. Burt Train
Operations: Air taxi/charter (US part 135), Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 3-206B3, 1-350B

Redstone Aero Services, Inc.
Walker Field
Grand Junction, CO 81506-8605
☎ 303-242-4923
President: John H. Linke
Operations: Air taxi/charter (US part 135), External cargo, Forestry, general, Government contracting, Law enforcement (for hire), Sightseeing
Helicopters: 1-369D

Reeder Flying Service, Inc.
Route 2, Box 5300
Twin Falls, ID 83301-9617
☎ 208-733-5920
President: John W. Reeder
Vice President: Charles R. Reeder
Director of Maintenance: Ray Hanna
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 5-206B3

Reem Air Ltd.
744 South Indiana
Brownsville, TX 78521
☎ 512-831-4482
President/CEO: Benajamin Riley
General Manager: Joseph Sandlin
Director of Operations: Rick Remey
Chief Pilot: Ken Wilson
Operations: Air taxi/charter (US part 135), Bank paper transportation, Construction, Corporate (US part 91, not for hire), Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, Fire control/support, Government contracting
Helicopters: 1-350D

Reforestation Services, Inc.
5669 Commercial Street, S.E.
P.O. Box 3179
Salem, OR 97302
☎ 503-362-8322
President: G.E. Liming
Vice President: L.J. Liming
Chief Mechanic: Lynn Ankrum
Operations: Agriculture, Air taxi/charter (US part 135), External cargo, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Repair station (FAA certified)
Helicopters: 5-H12E

Resorts International Airlines, Inc. (RIA)
900 Lincoln Harbor Heliport
Weehawken, NJ 07087
☎ 201-865-6900 ☐ 128166
General Manager: Matthew S. Zuccaro
Chief Pilot: Sanford Goldstein
Director of Maintenance:
Robert Serafini
Operations: Air carrier, Air taxi/charter (US part 135), Commuter/scheduled, Corporate (US part 91, not for hire), Executive transport, Photography, Sightseeing
Helicopters: 3-S61N

Rockwell International Hanford Operations
P.O. Box 800,
Building 2721EA - 200 E. Area
Richland, WA 99352
☎ 509-373-1992
President: Paul G. Lorenzini
Chief, Hanford Patrol: B.G. Essary
Chief Pilot: Vernon L. Estes
Operations: Government contracting, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 2-350D

Rockwell International Corp.
600 Grant Street
Pittsburgh, PA 15219
☎ 412-565-5814
Director/Flight Operations:
K. L. Roloff
Chief Helicopter Pilot:
Andrew Coster

Chief Helicopter Pilot (LAX):
Clay Alexander
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-355F, 1-B222

Rocky Mountain Helicopters, Inc.
P.O. Box 1337
Provo, UT 84603-1337
☎ 801-375-1124 ☐ 388-378 ♦ 801-375-1124
President: James B. Burr
Vice President: Robert C. Burr
V.P. Operations/Safety: Don Andrews
Executive Director/Medical Group:
Russ Spray
Chief Pilot: Larry Doll
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Logging, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Skiing, Traffic surveillance
Helicopters: 5-214B, 8-316B, 9-319B, 7-206L, 4-BK117, 12-315B, 3-500D, 2-300C, 13-350D, 6-355F

Rogers Helicopters, Inc.
P.O. Box 4
Clovis, CA 93613
☎ 209-299-4903 ☐ 176948
President: Robert H. Rogers
Executive Vice President:
Wanda L. Rogers
Vice President: Rory Rogers
Operations Manager: Robin M. Rogers
Chief Pilot: Dennis Day
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing, Skiing
Helicopters: 1-204B, 2-350D, 1-530F, 6-206B, 1-206L, 1-UH-1B, 1-B222, 1-S62

Rorer Group Inc.
500 Virginia Drive
Fort Washington, PA 19034
☎ 215-628-6497 ☐ 510-661-1306
Aviation Manager: Gary A. DiVincenzo
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-350D

Royale Helicopter Service, Inc.
P.O. Box 127
Burgettstown, PA 15021
☎ 412-947-3366
President: Barth W. Bartholomae
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, Executive transport, Exploration, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing, Traffic surveillance
Helicopters: 3-206B

Sabah Air Pte Ltd.
Kota Kinabalu Int'l Airport
Locked Bag 113
88999 Kota Kinabalu, Malaysia
☎ 088-51326 ☐ 80073
Managing Director:
Capt. A.M. Bin Mohamed Noo
General Manager: Tony Liew
Chief Pilot: Capt. V.T. Rajah
Chief Engineer: Rochester Lo
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, Executive transport, External cargo, Forestry, general, Government contracting, Offshore, Photography, Pilot training school, Sightseeing
Helicopters: 7-206B, 1-B212

Salt River Project
P.O. Box 1980
Phoenix, AZ 85001
☎ 602-236-2479
President: J.R. McNamara
Manager, Flight Operations:
William F. Hines
Operations: Corporate (US part 91, not for hire), Executive transport, External cargo, Patrol (power, pipeline, buried cable)
Helicopters: 1-206B

Schiavone Construction Co.
1600 Paterson Plank Road
Secaucus, NJ 07094
☎ 201-867-5070
Chief Pilot: C.J. Harper
Helicopter Pilot: E.R. Arnold
Operations: Air taxi/charter (US part 135), Bank paper transportation, Executive transport, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 1-206B, 1-355F

Joseph E. Seagram & Sons, Inc.
Hangar 6
Westchester County Airport
White Plains, NY 10604
☎ 914-761-4915
Chief Pilot: Paul Zill
Operations: Corporate (US part 91, not for hire)
Helicopters: 2-109A

Sealand Helicopters Ltd.
P.O. Box 5188
Saint Johns, NF, A1C 5V5, Canada
☎ 709-576-4911 ☐ 016-3159 ♦ 709-576-2192
President: A.F. Soutar
Vice President, Operations:
W.L. Stephens
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Offshore, Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 1-205A, 10-206B, 7-206L, 3-350D, 1-355F, 7-332C

Sears Roebuck and Company
5130 West 63rd Street
Chicago, IL 60638
☎ 312-585-1282 ☐ 25211
Chief Pilot: C. E. Smith
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Security Ford Tractor, Inc.
3828 Washington Boulevard
Baltimore, MD 21227
☎ 301-247-9600
President: James G. McManus
Vice President: John J. Torrillo
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-500D

Security Pacific National Bank
333 South Hope Street, H39-89
P.O. Box 2097, Terminal Annex
Los Angeles, CA 90051
☎ 213-613-6023
Chairman/Chief Executive Officer:
Richard J. Flamson
Vice President, Helicopter Division:
William M. Rahn
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Selecta Aero Taxi Ltda.
Alameda Santos 1.357
30 Andar
Sao Paulo, 01419, Brazil
☎ 2840294 ☐ 1123084
Managing Director:
Silveira Milton Malta
Operations Technical Manager:
Roberto Ebert
Administrative Manager:
Arthur Bellini Neto
Operations: Air taxi/charter (US part 135), Bank paper transportation, Electronic news gathering, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 2-350B

Servicio Aereo Litoral Ltda.
Casilla 4014
Santiago, Chile
☎ 02-2259792 ☐ 240585
Managing Director: Folke Bergstrom
Operations Manager: Luis Puebla
Chief Pilot: Eduardo Arevalo
Operations: Agriculture, Air taxi/charter (US part 135), EMS/air ambulance, External cargo, Forestry, general, Offshore, Patrol (power, pipeline, buried cable), Sightseeing, Skiing
Helicopters: 2-365, 3-316B, 1-355F

Servicio Tecnico Aeronautico S.A. de C.V.
Aeropuerto Internacional
Merida, Yucatan, 97000, Mexico
☎ 992-4-72-90 ☐ 753863
Operations Director:
Enrique Ramirez Cueto
Operations: Repair station (FAA certified)

Shamrock Coal Company
P.O. Box 130
Manchester, KY 40962
☎ 606-598-6151
Chief Pilot: Elmer R. Barbee
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-341G

Shannon Executive Aviation Ltd.
E. Ramp, Shannon Airport
County Clare, Ireland
☎ 061-61211 ☐ 24055
Managing Dir./Chief Pilot:
B. A. Carpenter
Operations: Air carrier, Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 1-269B, 1-222A

Shell Aircraft Limited
Cardinal Point, Newall Road
London (Heathrow) Airport
Hounslow, Middlesex, TW6 2HF, England
☎ 01-7594531 ☐ 919651
Managing Director: C.R. Moss
Operations Director:
Richard W.H. Browne
Operations: Corporate (US part 91, not for hire), Executive transport, Offshore
Helicopters: 4-S61N

Shell Oil Company
P.O. Box 60828
Houston, TX 77205
☎ 713-443-3881 ☐ 76-2248
Manager Corporate Aviation:
David L. Pease
Transportation Rep./Contract Flight Ops.:
William W. Stiles
Transportation Rep./Contract Flight Ops.:
W.W. Diamond
Manager Aviation Services/Louisiana Ofc.:
Jerry E. Whitman
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Simplex Time Recorder Co.
Simplex Plaza
Gardner, MA 01441
☎ 617-632-0451
Chief Pilot: William Sneed
Pilot: Arthur Godjikian
Pilot: Ken Gerken
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L

Sonoma County Sheriff's Department Helicopter/SAR Bureau
600 Administrative Drive
Santa Rosa, CA 95401
☎ 707-527-9595
Unit Supervisor: Casey Howard
Observer: John Lynde
Pilot: Tom McDonnel
Pilot: Dave Boyce
Operations: EMS/air ambulance, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 1-206B

South Carolina Aeronautics Commission
Drawer 1987
Columbia, SC 29202
☎ 803-758-2766
Director: John Hamilton
Assistant to Director:
Alan Alexander
Maintenance Supervisor: Rex Dula
Safety Pilot: Walter Johnson
Operations: Executive transport, Government contracting, Government agency (not for hire), Law enforcement (not for hire)
Helicopters: 1-206L

South Carolina Pipeline Corp.
P.O. Box 6317
Columbia, SC 29260
☎ 803-788-3220
President/CEO: Max Earwood
Vice President/Operations:
B.J. MacInnis
Manager of Aviation R/W:
James T. Breznay
Operations: Corporate (US part 91, not for hire), Executive transport, Patrol (power, pipeline, buried cable)
Helicopters: 1-206L

South Sea Helicopters, Inc.
P.O. Box 1445
Lihue, Kauai, HI 96766
☎ 808-245-7781 ☐ 6502528087
President: Paul D. Asmus
Vice President: Geraldine Asmus
Operations Manager: JoAnn Hamilton
Chief Pilot: Tom Mishler
Operations: Air taxi/charter (US part 135), Executive transport, External cargo, Forestry, general, Government contracting, Photography, Sightseeing
Helicopters: 2-206B

Southern California Edison Co.
7000 Merrill Avenue
Chino Airport - Box 33
Chino, CA 91710
☎ 714-597-1881
Chairman of the Board:
Howard P. Allen
Director of Aircraft Operations:
Dale F. Barringer
Operations Manager: Robert C. McGuire
Chief Pilot: Robert D. Cloud
Chief of Maintenance: Gorden Hodges
Operations: Construction, Corporate (US part 91, not for hire), Executive transport, Exploration, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring
Helicopters: 2-500C, 1-500D, 2-350D, 1-500E, 1-B222

St. Louis Helicopter Airways Inc.
P.O. Box 809
St. Louis, MO 63017-8809
☎ 314-532-1177
President: John R. Murphy
V.P. Marketing/Sales: Larry Corbin
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, External cargo, Government contracting, Photography, Pollution detection/monitoring, Repair station (FAA certified), Traffic surveillance
Helicopters: 4-S58A, 4-206L, 1-B105, 1-350D, 1-109A

State of New York Aviation
Albany County Airport
Albany, NY 12211
☎ 518-457-1200
Director Of Aviation:
Vincent E. O'Brien
Operations: EMS/air ambulance, Executive transport, External cargo, Fire control/support, Forestry, general, Government agency (not for hire), Pollution detection/monitoring
Helicopters: 1-204B, 1-B212, 1-S76A

Sterling Helicopter, Inc.
Pier 36 South
Delaware Avenue & Catherine St.
Philadelphia, PA 19147
☎ 215-271-2510 ☐ 323224
President: Jack M. Brown
Vice-President of Operations:
John P. D'Innocenzi
Chief Pilot: Scott Hibbs
Director of Maintenance:
Philip C. Bidden
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-300C, 2-206B3, 1-206L, 1-350B

Sterner Aero AB
P.O. Box 8302
Borlange, S-781 08, Sweden
☎ 243-333-20 ☐ 74033
President: Bo Sterner
Vice President: Goran Edgren
Technical Manager: Claes Pettersson
Chief Pilot: Anders Hagberg
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, External cargo, Fire control/support, Forestry, general, Logging, Mechanic training school, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Sightseeing, Skiing
Helicopters: 5-300C, 3-205A, 3-350B

Summit Helicopters, Inc.
P.O. Box 38
Cloverdale, VA 24077
☎ 703-992-5500
President: Carl N. Milko
Vice President of Maintenance:
Alan W. Sohler
Vice President of Operations:
James C. Carlton
Vice President of Marketing/Sales:
Bill McAlister
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Photography
Helicopters: 2-206B, 4-12ET

Sun Company, Inc.
4875 South Island Avenue
Philadelphia, PA 19153
☎ 215-293-6586 ☐ 845-259
President/CEO: Robert McClements
Director of Operations:
H. John Reuwer
Manager, Helicopter Operations:
Richard Salzarulo
Operations: Executive transport
Helicopters: 1-B412

Swiss Air-Rescue (REGA)
Mainaustrasse 21
Zurich, 8008, Switzerland
☎ 01-385-8585 ☐ 815815
Chief Executive Officer: H. Hirni
V.P. Public Relations:
Diethelm Ryffel
Operations: EMS/air ambulance, Law enforcement (for hire), Repair station (FAA certified)
Helicopters: 11-319B, 3-B105

Tamalpais Helicopters Inc.
92 San Marin Drive
Novato, CA 94947
☎ 415-897-8575
President: William G. Faust
Operations: Air taxi/charter (US part 135), Executive transport
Helicopters: 1-206B

Tampa Helicopters Inc.
309 S. Douglas Road
Oldsmar, FL 33557
☎ 813-855-3290
Chairman/Chief Executive Officer:
Brian L. Leyden
President/Chief Pilot:
Richard P. Naylor
Operations: Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 2-350D, 1-500D

Temsco Helicopters, Inc.
P.O. Box 5057
Ketchikan, AK 99901
☎ 907-225-5141 ☐ 099-55204
President: Kenneth C. Eichner
Operations Manager: Charles W. Gale
Chief Pilot: Steve Brown
Chief of Maintenance:
William Hornbaker
Manager: Bob Englebrecht
Operations: Air taxi/charter (US part 135), Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Offshore, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing
Helicopters: 2-B212, 4-350B, 22-500D, 1-B204, 2-206B3

Tenneco, Inc.
16951 JFK Boulevard
Houston, TX 77032
☎ 713-757-8107 ☐ 792-839
Manager, Rotorwing Flight Operations:
F.L. Clough
Operations: Corporate (US part 91, not for hire), Offshore, Patrol (power, pipeline, buried cable)
Helicopters: 3-206B, 12-B105, 1-350B

Terr-Air Rotary (Territorial Airways) Limited
P.O. Box 688
Lac la Biche, AB, T0A 2C0, Canada
☎ 403-623-2140
President: Douglas MacPherson
V.P. Marketing/Sales: Steve Harrison
Chief Pilot: Pieter Koster
Operations: Air carrier, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Sightseeing
Helicopters: 4-500D, 2-206B, 1-S58T

Texas Starship Enterprises
1545 Stone Road
Wylie, TX 75098
☎ 214-442-1831
President: David Walden
Director of Operations:
Sherry Walden
Chief Pilot: Martin Plowman
Operations:
Helicopters: 1-206B

Textron, Inc.
Textron Aircraft Department
T.F. Green Airport
Warwick, RI 02886
☎ 401-457-2338
President & CEO: Beverly F. Dolan
Aviation Department Manager:
Robert M. Brunelle
Chief Pilot: Gerard Archambaulte
Operations: Executive transport, Private owners
Helicopters: 1-B222, 1-206L

Thompson & Green Machinery Company, Inc.
1245 Firestone Boulevard
Lavergne, TN 37086
☎ 615-256-2424
Chief Pilot: Gregory A. Simpson
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire)
Helicopters: 1-500D

Thomson Industries, Inc.
Channel Drive
Port Washington, NY 11050
☎ 516-883-8000 ☐ PTWN 6852347
President: John B. Thomson, Jr.
Manager, Flight Department:
Richard L. Peck
Captain, Flight Department:
Keith J. Fritz
Director of Maintenance:
Robert Petty
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-S76A, 1-1100

Tiller Helicopter Service Inc.
Route 1, Box 300A
Alice, TX 78332
☎ 512-664-6453
President: William J. Tiller
Operations: Agriculture, Air taxi/charter (US part 135), Bank paper transportation, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Repair station (FAA certified)
Helicopters: 3-47G4, 2-47G5, 2-SL47, 1-WASP

TRIAD America International
3916 State Street
Suite 200
Santa Barbara, CA 93105
☎ 805-687-4882 ☐ 757074
Pilot: James H. Frye

Manufacturer's Key

Code	Manufacturer
313B	Aerospatiale
315B	Aerospatiale
316B	Aerospatiale
316O	Aerospatiale
318C	Aerospatiale
319B	Aerospatiale
321J	Aerospatiale
330J	Aerospatiale
330K	Aerospatiale
330L	Aerospatiale
332C	Aerospatiale
332J	Aerospatiale
332L	Aerospatiale
341G	Aerospatiale
350B	Aerospatiale
350C	Aerospatiale
350D	Aerospatiale
355E	Aerospatiale
355F	Aerospatiale
360C	Aerospatiale
361	Aerospatiale
365	Aerospatiale
365N	Aerospatiale
109A	Agusta
47B	Bell
47D	Bell
47G	Bell
47G2	Bell
47G3	Bell
47G4	Bell
47G5	Bell
47H1	Bell
47J	Bell
47J2	Bell
47J3	Bell
47K	Bell
204B	Bell
205A	Bell
206A	Bell
206B	Bell
206L	Bell
B212	Bell
214B	Bell
214ST	Bell
222B	Bell
222UT	Bell
412	Bell
BV44	Boeing Vertol
BV47	Boeing Vertol
B107	Boeing Vertol
B234	Boeing Vertol
TCAT	Continental (Bell)
F28A	Enstrom
F28C	Enstrom
F28F	Enstrom
280C	Enstrom
280F	Enstrom
280FX	Enstrom
1100	Fairchild
12E4	Hiller
H12D	Hiller
H12E	Hiller
269A	Hughes/Schweizer
300B	Hughes/Schweizer
300C	Hughes/Schweizer
500A	Hughes/McDonnell Douglas
500C	Hughes/McDonnell Douglas
500D	Hughes/McDonnell Douglas
500E	Hughes/McDonnell Douglas
530F	Hughes/McDonnell Douglas
KV107	Kawasaki
BK117	Kawasaki
B105	MBB
BK117	MBB
R22	Robinson
RH-100	Rogerson/Hiller
S55T	Sikorsky
S58T	Sikorsky/California
S61L	Sikorsky
S61N	Sikorsky
S62	Sikorsky
S64	Sikorsky
S70C	Sikorsky
S76A	Sikorsky
S76B	Sikorsky
SL12	Soloy
UH12E	Soloy
SL47	Soloy
WASP	WASP
WG30	Westland

Operations: Executive transport
Helicopters: 1-500E

Trans-Alaska Helicopters, Inc.
819 Orca Street
Anchorage, AK 99501
☎ 907-274-7762 ☐ 25236
President: Richard C. Sweezey
Vice President: Don M. Ward
Chief Pilot: Ed Gunter
Operations: Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable), Repair station (FAA certified), Sightseeing
Helicopters: 6-206B, 1-206L, 1-205A

Transco Energy Company
P.O. Box 60974
Houston, TX 77205
☎ 713-821-1004
Chairman of the Board: W.J. Bowen
Director of Aviation:
Von A. Campbell
Manager, Helicopter Operations:
Bennie J. Shields
Maintenance Manager: Bobby J. Richey
Operations: Corporate (US part 91, not for hire), Offshore
Helicopters: 20-355F

TransWestern Helicopters, Inc.
Scappoose Industrial Air Park
P.O. Box R
Scappoose, OR 97056
☎ 503-226-4731 ☐ 151405
President: Elizabeth K. Johnson
Operations Manager: John C. Helm
Parts Manager: Steve Lippert
Chief Pilot: Robert J. Edwards
Operations: Agriculture, Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Law enforcement (for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Pollution detection/monitoring, Repair station (FAA certified), Sightseeing
Helicopters: 4-206B, 1-500D

The Travelers Corporation
1 Tower Square
Hartford, CT 06183
☎ 203-277-3693 ☐ 643841
Second Vice President:
John F. Sheehan
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76

Travenol Laboratories, Inc., Helicopter Department
P.O. Box 678
Carolina, 00630, Puerto Rico
☎ 809-762-0050 ☐ 345-5098
Vice President/General Manager:
James H. Taylor
Pilot: Freddie Cortes
Manager, Flight Operations:
Eugene Higgins
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-B105

Tri-County Helicopters
Box 187, 341 King Street
Myerstown, PA 17067
☎ 717-866-5795 ☐ 842545
Owner: Richard L. Miller
Chief Pilot: Jerry Ehrhart
General Manager: Karen McKnight
Operations: Air taxi/charter (US part 135), Executive transport, Government contracting, Photography, Pilot training school, Private owners, Sightseeing
Helicopters: 1-F28C, 2-206B

Triad Helicopters, Inc.
Hangar 14
Smith Reynolds Airport
Winston-Salem, NC 27105
☎ 919-767-4057
President: Curtis H. Blackwell
Vice President: James Whittington
Chief Pilot: Thomas Hatcher
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport, Photography, Pilot training school, Sightseeing
Helicopters: 3-206B, 1-269C, 1-206L

Tropical Helicopter Airways Inc.
950 MacArthur Causeway
Miami, FL 33132
☎ 305-374-6055
Chairman: William Ter Keurst
President: Reed Phillips
Vice President:
William Ter Keurst, Jr.
Operations: Air taxi/charter (US part 135), Bank paper transportation, Commuter/scheduled, Electronic news gathering, Executive transport, External cargo, Government contracting, Law enforcement (not for hire), Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Traffic surveillance
Helicopters: 1-206L, 1-206B, 1-500D

Tucson Police Department Air Support Unit
6702 South Plummer Avenue
Tucson, AZ 85706
☎ 602-791-4142
Supervisor - Air Support Unit:
Doug Russell
Training Officer: Tim Clark
Safety Officer: Scott Erickson
Operations: Government agency (not for hire)
Helicopters: 2-206B

Tulsa Security, Inc.
P.O. Box 4158
Tulsa, OK 74159
☎ 918-584-2431
President/CEO: Judy A. Boswell
Special Services: Larry Gass
Maintenance: Gerald Morton
Operations: Corporate (US part 91, not for hire), Executive transport, Law enforcement (not for hire), Photography
Helicopters: 2-206B

Ty-Tua Inc., Aviation Service Subsidary of Smith Industries
8402 Nelms
Suite 209
Houston, TX 77061
☎ 713-644-1081
Chairman of the Board: Tyson Smith
President/General Manager:
John L. Pittman
Chief Pilot: Gary Loughman
Operations: Air taxi/charter (US part 135), Construction, Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Traffic surveillance
Helicopters: 1-206L, 1-206B

U.S. Jet Aviation, Inc.
Washington National Airport
General Aviation Terminal
Washington, DC 20001
☎ 703-892-6200 ☐ 901854
President: William J. McKenna, Jr.
Vice President: Troy L. Mashburn
Director Rotorcraft Operations:
Richard T. Chitti
Director of Maintenance:
Michael Weber
Operations: Air taxi/charter (US part 135), Electronic news gathering, EMS/air ambulance, Executive transport, Government contracting, Law enforcement (for hire), Photography, Repair station (FAA certified), Sightseeing
Helicopters: 3-B117, 1-350D

U.T. LIFESTAR, Aeromedical Services, University of Tennesse
Memorial Research Ctr./Hospital
Drawer 81, 1924 Alcoa Highway
Knoxville, TN 37920
☎ 615-544-9112
Director, Aeromedical Services:
Robert F. Lash
Chief Pilot: Dan E. Norman
Operations: EMS/air ambulance
Helicopters: 1-B222

United Technologies Corporation Corporate Aircraft Department
Rentschler Airport
East Hartford, CT 06108
☎ 203-565-3596 ☐ 966478
Director of Aircraft Operation:
Wesley R. Holder
Helicopter Administrator:
James A. Williams
Chief Pilot: Charles E. White
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A, 1-S76B

United Telephone Company of the Northwest
601 State Street
Hood River, OR 97031
☎ 503-386-0374
Chief Pilot/Mechanic:
Ronald W. Wilkins
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-206L1

University of North Dakota
Center for Aerospace Sciences
P.O. Box 8216
University Station
Grand Forks, ND 58202-8216
☎ 701-777-2791 ☐ 9106738382
Dean, CAS: John D. Odegard
Director Flight Operations:
Dana Siewert
Chief Pilot Helicopter Programs:
Robert White
Assistant Chief Pilot Helicopter Programs:
Ronald DePue
Operations: Corporate (US part 91, not for hire), Executive transport, Government agency (not for hire), Pilot training school
Helicopters: 3-300C, 2-500E

University of South Alabama
Medical Center/"Southflite USA"
2451 Fillingim Street
Mobile, AL 36617
☎ 205-471-7100
Aeromedical Svcs. Dept. Head/Chief Pilot:
Raymond L. Wood
Director of Maintenance:
Jim Chenoweth
Lead Pilot: Ray Nicholas
Program Coordinator: Bill Glisson
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Offshore
Helicopters: 1-206L1, 1-B222A

USX Corporation
Aircraft Division
Greater Pittsburgh Int'l Airport
P.O. Box 12345
Pittsburgh, PA 15231-0345
☎ 412-433-4833
Manager Flight Operations/Flight Training:
Jeffrey A. Geary
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-B222

Vancouver Island Helicopters Ltd.
No. 1-9600 Canora Road
Sidney, BC, V8L 4R1, Canada
☎ 604-656-3987
President: F. Norie
Vice President: T. Deeley
General Manager: Barry J. Hewko
Chief Engineer: G. Hartsook
Operations: Construction, EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified)
Helicopters: 9-206B, 1-206L1, 3-500D, 1-204B, 1-47G2

Vernon Helicopters Ltd.
Site #2, Comp.1, #1
Rural Route 4
Vernon, BC, V1T 6L7, Canada
☎ 604-542-6000
President: Richard K. Biggs
Operations: Air carrier, Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Patrol (power, pipeline, buried cable)
Helicopters: 2-206B

Verticare
P.O. Box 5127
Salinas, CA 93915 5127
☎ 408-422-0685 ☐ 9103802569
President: James T. Cheatham
Operations: Agriculture, Air carrier, Air taxi/charter (US part 135), Construction, Exploration, External cargo, Fire control/support, Forestry, general, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing, Skiing
Helicopters: 1-UH1B, 2-500D, 2-UH12

View Top Corporation
Westchester County Airport
White Plains, NY 10604
☎ 914-428-8780
Chief Helicopter Pilot: W. Ward Gill
Chief of Maintenance: Joe Moore
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Viking Helicopters, Ltd.
400 Cite Des Jeunes Boulevard
Saint Clet, PQ, J0P 1S0, Canada
☎ 514-455-5687 ☐ 05-25196
President: Jean-Paul Provost
Senior Vice President:
George Delaney
Vice President Maintenance:
Guy Hallifax
Chief Pilot: Jean Pierre Boudow
Operations: Construction, Corporate (US part 91, not for hire), EMS/air ambulance, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Logging, Patrol (power, pipeline, buried cable), Photography, Skiing
Helicopters: 50-500D, 10-500C, 3-B212, 2-315B, 6-206B, 2-206L

Villa Banfi
1111 Cedar Swamp Road
Old Brookville, NY 11545
☎ 516-626-9200 ☐ 127379
Chairman of the Board: John Mariani
President: Harry Mariani
Chief Pilot: Walton Marshall
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-350B

VOTEC
Av. Alvorada 2541
Barra da Tijuca
Rio de Janeiro, 22700, Brazil
☎ 021-325-9044 ☐ 2135610
Chief Executive Officer:
Alexandre Silva
Marketing Director: Paulo Macedo
Operations Manager: Celio Cunha
Operations: Agriculture, Air taxi/charter (US part 135), Commuter/scheduled, External cargo, Offshore, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 4-S61N, 3-S58T, 6-S76A, 6-500D

Warner Lambert Company
Flight Operations
Morristown Municipal Airport
Morris Plains, NJ 07960
☎ 201-540-4901
Director Aviation & Travel Services:
Edward Chu
Chief Pilot: Roger B. Loomis
Operations: Corporate (US part 91, not for hire)
Helicopters: 1-S76A

Wayfarer Ketch Corporation
Hangar G
Westchester County Airport
White Plains, NY 10604
☎ 914-949-4424 ☐ 703130
Vice President: Malcolm R. Doak
Operations Manager: James A. Palmer
Chief Pilot, Rotary Wing:
Ralph T. Williams
Director of Maintenance:
Edward C. Abbott
Operations: Air taxi/charter (US part 135), Corporate (US part 91, not for hire)
Helicopters: 2-B105, 1-S76A

Western Helicopters, Inc.
P.O. Box 579
Rialto, CA 92376
☎ 714-829-1051 ☐ 676421
President: Clair T. Merryweather
Director of Operations:
Dorcey A. Wingo
Chief Pilot: Peter Gillies
Director of Maintenance:
Robert Freeman
Operations: Air taxi/charter (US part 135), Construction, Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Pilot training school, Repair station (FAA certified), Sightseeing, Skiing, Traffic surveillance
Helicopters: 1-206B, 1-500D, 1-300B, 1-500C, 1-300C, 1-206L

Weyerhaeuser Company
Corporate Aircraft
Tacoma, WA 98477
☎ 206-241-2858 ☐ 9104412615
Manager Corporate Aircraft:
W.K. Smith
Chief Helicopter Pilot:
Dale H. Erdelbrock
Chief Inspector: Arden Davis
Manager Mid South: G.M. MacNamara
Operations: Air taxi/charter (US part 135), Executive transport, Exploration, External cargo, Fire control/support, Forestry, general, Herding/stock & wildlife, Photography, Repair station (FAA certified), Sightseeing
Helicopters: 3-B212, 7-206B

Whirlybird Inc.
9475 Deereco Road
Timonium, MD 21093
☎ 301-561-5870
President/CEO: Thomas Obrecht
Chief Pilot: Jesse G. Hadaway, Jr.
Operations: Air taxi/charter (US part 135), Electronic news gathering, Executive transport,

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Helicopter Association International

1619 Duke Street
Alexandria, VA 22314-3406

Photography, Pilot training school, Sightseeing
Helicopters: 1-206L1

Frank L. Whitcomb
d/b/a Drewsville Airways
P.O. Box 1000
Walpole, NH 03608
☎ 603-445-5555
Owner: Frank L. Whitcomb
Operations: Corporate (US part 91, not for hire), Private owners
Helicopters: 1-206B

White Mountain Airways
P.O. Box 679
North Conway, NH 03860
☎ 603-356-2930
President: Wylie L. Apte
Operations: Air taxi/charter (US part 135), Executive transport, Forestry, general, Government contracting, Law enforcement (not for hire), Photography, Private owners, Sightseeing, Skiing, Traffic surveillance
Helicopters: 2-206B

WIKING Helicopter Service GmbH
Postfach 30 55 70
D-200 Hamburg, 36, West Germany
☎ 44-19-13-50 □ 21700840
Managing Director: Rolf Schneider
Operations Manager: Udo Jahn
Chief Pilot: Josep Blochl
Technical Manager: Horst Voigt
Operations: Agriculture, Executive transport, Exploration, External cargo, Forestry, general, Government contracting, Offshore, Patrol (power, pipeline, buried cable), Photography, Pollution detection/monitoring, Sightseeing
Helicopters: 1-B212, 1-206L, 1-S61N, 2-S76A, 1-206B

Wilbur's Incorporated
Merrill Field
1740 E. 5th Avenue
Anchorage, AK 99501
☎ 907-272-6361
President: Joseph Wilbur
Operations: Air taxi/charter (US part 135), External cargo, Photography, Pilot training school, Sightseeing
Helicopters: 3-B47G

Wilsey, Bennett Company
P.O. Box 3532
San Francisco, CA 94119
☎ 415-391-4150
Chairman: M.W. Lilsey
Executive Committee Chairman:
A.S. Lilsey
Chief Pilot: Clifford D. Mooney
Operations: Corporate (US part 91, not for hire), Executive transport
Helicopters: 1-500D

WNEP-TV, a New York Times Co.
Wilkes-Barre/Scranton
International Airport
Avoca, PA 18641
☎ 717-826-1616
President, Broadcast Division:
Frank Roberts
Executive V.P./General Manager:
Elden Hale
Controller: Ronald Kupers
Pilot: Jack Ruland
Operations: Electronic news gathering
Helicopters: 1-206B

WOR Radio
1440 Broadway
New York, NY 10018
☎ 212-764-7000
Chief Pilot: George J. Meade
Operations: Traffic surveillance
Helicopters: 1-206B

WSVN-TV Channel 7
1401 79th Street Causeway
Miami, FL 33141
☎ 305-751-6692
Chief Executive Officer:
Robert Leider
Chief Pilot/Reporter:
Maurice Johnson
Operations: Corporate (US part 91, not for hire), Electronic news gathering, Traffic surveillance
Helicopters: 1-350B

Yellowhead Helicopters Ltd.
P.O. Box 18
Valemount, BC, V0E 2Z0, Canada
☎ 604-566-4401
President: Garry Forman
Operations: Air taxi/charter (US part 135), EMS/air ambulance, Exploration, External cargo, Fire control/support, Forestry, general, Government contracting, Herding/stock & wildlife, Photography, Sightseeing
Helicopters: 3-206B

Yuma Helicopters, Inc.
4433 S. 4th Avenue Ext.
Yuma, AZ 85364
☎ 602-783-4300
President: Eugene Dewey
Operations: Agriculture, Air taxi/charter (US part 135), Construction, EMS/air ambulance, Executive transport, External cargo, Fire control/support, Government contracting, Herding/stock & wildlife, Patrol (power, pipeline, buried cable), Photography, Sightseeing
Helicopters: 5-47G5, 1-206B2

Zodiac Helicopters
P.O. Box 279
Dumfries, VA 22026
☎703-690-3816
Executive Vice President: L.J. Sallee
Operations: Air taxi/charter, Government contracting
Helicopters: 1-269A

MAINTAIN THE WATCH . . . in Washington by joining HAI.

Helicopter Association International

Worldwide Geographic Matrix of Member Operators by Operations

AUSTRALIA

Department of Aviation
Aircraft Data Section
Canberra, A.C.T.
684589

Commercial Aviation Pty., Ltd.
Ravesby, NSW
02-707-4200

Esso Australia, Ltd.
Sale, Victoria
051-495201

Jayrow Helicopters Pty., Ltd.
Victoria
587-1833

BRAZIL

Lider Taxi Aero S.A.
Belo Horizonte
031-441-9088

Cruzeiro Taxi Aereo S/A
Rio de Janeiro
021-270-8582

Helijet Aero Taxi Ltda.
Rio de Janeiro
021-224-7282

VOTEC
Rio de Janeiro
021-325-9044

Pirelli S/A
Sao Paulo
220-8011

Selecta Aero Taxi Ltda.
Sao Paulo
284-0294

CANADA

Dome Petroleum Ltd.
Calgary, AB
403-291-4722

Mobil Oil Canada, Ltd.
Calgary, AB
403-268-7687

Churchill Falls Labrador Corp.
Churchill Falls, LB
709-925-3405

	Agriculture	Air carrier part 127	Air taxi charter part 135	Bank paper transportation	Commuter air carrier sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency, not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photographs	Pollution detect monitor	Private owners	Sightseeing	Skiing	Traffic watch
NOVA an Alberta Corporation Aviation Department Edmonton, AB 403-423-8266						☆																						
Fraser, Inc. Edmundston, NB 506-735-5551						☆		☆																				
Horizon Helicopters, Inc. Kamloops, BC 604-554-3434	☆		☆			☆		☆		☆	☆	☆		☆							☆							
Terr-Air Rotary (Territorial Airways) Limited Lac la Biche, AB 403-623-2140		☆	☆			☆		☆	☆	☆	☆	☆		☆				☆								☆		
Ontario Hydro Mississauga, ON 416-677-1330						☆	☆	☆	☆	☆	☆										☆	☆						
Hydro-Quebec Montreal, PQ 514-289-2858			☆				☆		☆					☆	☆													
Macmillan Bloedel, Ltd. Flight Operations Richmond, BC 604-278-4807							☆																					
Maple Leaf Helicopters (Canada) Richmond, BC 604-270-4143		☆	☆			☆	☆		☆		☆	☆	☆	☆	☆				☆			☆				☆	☆	
Okanagan Helicopters, Ltd. Richmond, BC 604-278-5502			☆			☆			☆		☆	☆	☆		☆				☆	☆	☆	☆				☆	☆	
Viking Helicopters, Ltd. Saint Clet, PQ 514-455-5687						☆	☆		☆	☆	☆	☆	☆	☆					☆		☆	☆					☆	
Sealand Helicopters, Ltd. Saint Johns, NF 709-576-4911			☆			☆				☆	☆	☆	☆	☆		☆				☆	☆	☆				☆		
Vancouver Island Helicopters, Ltd. Sidney, BC 604-656-3987						☆		☆	☆	☆	☆	☆									☆	☆						
Yellowhead Helicopters, Ltd. Valemount, BC 604-566-4401			☆					☆		☆	☆	☆		☆		☆						☆				☆		
Finning Tractor & Equipment Company Limited Vancouver, BC 604-872-4444						☆																						
Vernon Helicopters, Ltd. Vernon, BC 604-542-6000		☆				☆				☆	☆	☆	☆	☆							☆							
Custom Helicopters, Ltd. Winnepeg, MB 204-338-7953	☆		☆			☆				☆	☆	☆		☆		☆					☆	☆						

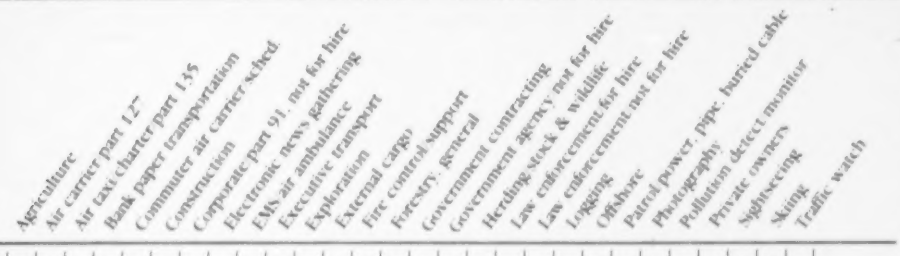
	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS-air ambulance	Executive transport	Exploration	External cargo	Fire control-support	Forestry, general	Government contracting	Government agency not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol-power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
CHILE																												
Heli-Chile, Ltda. Santiago 224-3597	☆						☆	☆	☆	☆		☆								☆	☆	☆	☆			☆	☆		
Helicopteros Andes S.A. Santiago 226-3373	☆		☆			☆				☆	☆	☆									☆	☆	☆			☆	☆		
Helimares, Ltda. Santiago 251-4185			☆				☆			☆	☆	☆	☆								☆	☆	☆			☆			
Servicio Aereo Litoral Ltda. Santiago 02-225-9792	☆		☆					☆			☆										☆	☆				☆	☆		
COLOMBIA																												
Aeroexpreso Bogota, Ltda. Bogota 211-8100			☆					☆	☆	☆	☆			☆								☆						☆	
Helicopteros Nacionales de Colombia S.A. (HELICOL) Bogota 263-7504			☆																			☆	☆			☆			
Helivalle, Ltda. Bogota 257-0635	☆	☆	☆	☆					☆	☆	☆			☆							☆		☆						
EGYPT																												
Petroleum Air Services (PAS) Cairo 609058					☆																							
ENGLAND																												
Shell Aircraft Limited Hounslow 01-7594531						☆			☆												☆							
Air Hanson, Ltd. Surrey 0932-57611			☆	☆					☆		☆			☆									☆					
Bristow Helicopter Group, Ltd. Surrey 01-668-6352			☆						☆	☆	☆			☆							☆	☆						
FINLAND																												
Helikopteripalvelu Helsinki 90-372122			☆			☆		☆	☆	☆	☆			☆							☆	☆	☆			☆			
FRANCE																												
Heli Union Paris 01-554-9290			☆			☆			☆	☆	☆	☆								☆	☆		☆						

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control-support	Forestry, general	Government contracting	Government agency, not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect monitor	Private owners	Sightseeing	Skiing	Traffic watch
GREENLAND																												
Greenlandair, Inc. Godthaab 24488			☆	☆	☆	☆			☆	☆	☆	☆			☆		☆				☆	☆	☆			☆			
GUATEMALA																												
Helicopteros de Guatemala Guatemala City 318282	☆		☆						☆	☆	☆	☆			☆							☆	☆			☆			
INDONESIA																												
Airfast Indonesia P.T. Jakarta 517696			☆			☆				☆	☆	☆			☆					☆	☆	☆				☆			
ATA Asahi Transna Airways P.T. Jakarta 711061			☆							☆	☆									☆	☆		☆						
Derazona Air Service P.T. Jakarta 803427			☆																		☆		☆			☆			
Indonesia Air Transport P.T. Jakarta 418190			☆			☆			☆	☆	☆	☆			☆						☆	☆							
National Utility Helicopters, Ltd., P.T. Jakarta 4815188			☆			☆			☆	☆	☆	☆			☆					☆	☆	☆	☆			☆			
Pelita Air Service P.T. Jakarta 375908			☆						☆	☆		☆			☆														
PT Gatari Hutama Airservice Jakarta 330190			☆						☆		☆	☆									☆								
IRELAND																												
Shannon Executive Aviation, Ltd. County Clare 061-61211		☆	☆	☆	☆		☆			☆											☆	☆							
Irish Helicopters, Ltd. Dublin 376473			☆			☆				☆	☆	☆			☆						☆	☆	☆						
ITALY																												
Elitos Helicopters S.p.A. Florence 55-43961			☆			☆				☆	☆	☆	☆								☆	☆							
JAPAN																												
Aero Asahi Corporation (Asahi Koyo) Tokyo 03-988-1011	☆	☆	☆		☆	☆				☆		☆	☆		☆					☆	☆	☆	☆		☆	☆	☆	☆	

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
KENYA																												
Autair Helicopters (EA), Ltd. Nairobi 501658	☆					☆			☆	☆	☆	☆			☆		☆					☆	☆						
KOREA																												
Doosan Development Co., Ltd. **Seoul** **783-17037**	☆		☆		☆				☆	☆	☆	☆			☆							☆	☆	☆			☆		☆
MALAYSIA																												
Sabah Air Pte, Ltd. Kota Kinabalu 088-51326	☆		☆						☆	☆		☆			☆							☆		☆			☆		
Kumpulan Guthrie Sendirian Kuala Lumpur 03-2541644	☆									☆																		
Malaysian Helicopter Services Bhd Kuala Lumpur 2542044																						☆						
MEXICO																												
Departmento del Distrito **Federal-Servicio Aereos** **Mexico, D.F.** **905-558-2416**															☆													
Heliservicio Campeche **S.A. de C.V.** **Mexico, D.F.** **905-553-6006**		☆								☆	☆	☆										☆		☆				
Petroleos Mexicanos **Mexico, D.F.** **905-763-5047**					☆		☆		☆	☆	☆	☆			☆							☆	☆	☆				
NETHERLANDS																												
KLM Helikopters B.V. Schipol-East 20-491339						☆				☆		☆			☆							☆		☆				
NEW ZEALAND																												
The Helicopter Line, Ltd. **Dunedin** **024-776829**	☆		☆								☆		☆			☆						☆		☆			☆	☆	
Lakeland Helicopters, Ltd. **Taupo** **074-84532**	☆	☆	☆	☆		☆				☆		☆	☆		☆		☆					☆	☆				☆	☆	
NORWAY																												
Norwegian Air Ambulance Drobak 02-93-21-60			☆						☆	☆		☆												☆			☆		☆
Helikopter Service A/S Laysaker 02-590560			☆						☆		☆	☆	☆						☆	☆	☆	☆							

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Lufttransport A/S Tromsoe 083-70022			☆			☆			☆	☆	☆	☆			☆						☆	☆	☆			☆			
PUERTO RICO																													
Travenol Laboratories, Inc. Helicopter Department Carolina 809-762-0050							☆			☆																			
SAUDI ARABIA																													
Arabian Helicopters, Ltd. Dhahran Airport 898-0028			☆							☆		☆									☆	☆	☆			☆			
SCOTLAND																													
British Airways Helicopters Dyce, Aberdeen 0224-771624		☆	☆		☆	☆					☆										☆								
SINGAPORE																													
Heli Services (PTE), Ltd. Singapore 4815771			☆			☆			☆	☆	☆	☆			☆		☆				☆	☆	☆			☆			
Mobil Producing Services Producing E.A., Inc. Singapore 481-3015										☆	☆										☆								
SOUTH AFRICA																													
Court Helicopters (Pty) Ltd. Cape Town 021-932-9211	☆		☆			☆				☆				☆		☆					☆	☆	☆			☆		☆	
Heliquip (PTY.) Ltd. Transvaal 011-827-8935	☆	☆	☆							☆	☆	☆			☆				☆			☆	☆						
SPAIN																													
HeliJet, S.A. Zaragoza 290330	☆	☆	☆			☆			☆	☆		☆											☆			☆			
SWEDEN																													
Sterner Aero AB Borlange 243-333-20	☆		☆			☆			☆			☆	☆							☆		☆	☆	☆			☆	☆	
Ostermans Aero AB Jarfalla 08-7602720			☆		☆	☆						☆			☆						☆	☆	☆			☆			
Board of Civilian Aviation Norrkoping 011-192000														☆															
Lapplandsflyg/Lapair AB Umea 90-129050			☆						☆	☆		☆			☆							☆	☆			☆	☆		

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
SWITZERLAND																												
HELISWISS, Swiss Helicopter, Ltd. Belp 31-81-33-11	☆		☆			☆				☆		☆	☆							☆	☆	☆	☆			☆	☆	
Helog, Ltd. Kussnacht 041 81 48 00	☆	☆				☆				☆		☆	☆							☆			☆			☆	☆	
Swiss Air-Rescue (REGA) Zurich 01-385-8585								☆																				
UNITED ARAB EMIRATES																												
Abu Dhabi Aviation **Abu Dhabi** **722733**			☆			☆		☆	☆		☆									☆	☆	☆						
Aerogulf Services Co (Pvt) Ltd. **Dubai** **245157**			☆					☆		☆	☆									☆		☆			☆			
WEST GERMANY																												
Motorflung GmbH Baden-Baden 7221-61003-5			☆						☆				☆									☆			☆			
WIKING Helicopter Service GmbH Hamburg 44-19-13-50	☆								☆	☆	☆		☆							☆	☆	☆			☆			
UNITED STATES																												
ALABAMA																												
University of South Alabama Medical Center/"Southflite USA" **Mobile** **205-471-7100**			☆					☆												☆								
ALASKA																												
Alaska Helicopters, Inc. Anchorage 907-243-3404			☆			☆					☆	☆	☆		☆					☆	☆	☆						
ERA Helicopters, Inc. Anchorage 907-248-4422		☆	☆		☆	☆			☆	☆	☆	☆									☆							
International Air Transport Incorporated Anchorage 907-272-5425	☆		☆							☆	☆	☆	☆		☆					☆	☆					☆		
Trans-Alaska Helicopters, Inc. Anchorage 907-274-7762			☆			☆				☆	☆	☆	☆								☆				☆			
Wilbur's Incorporated Anchorage 907-272-6361			☆								☆											☆			☆			
Kenai Air Alaska, Inc. Kenai 907-283-7561			☆					☆	☆	☆	☆	☆	☆		☆					☆								



Helipad Aviation, Inc.
Alaska Operation
Ketchikan
907-225-6608

Temsco Helicopters, Inc.
Ketchikan
907-225-5141

Aurora Helicopters, Inc.
Willow
907-495-6306

ARIZONA

Boulais Farms
Glendale
602-843-1220

Grand Canyon Helicopters
Grand Canyon
602-638-2410

Arizona Department of Public Safety - Air Safety Division
Phoenix
602-262-8413

Arizona Public Service Co.
Phoenix
602-371-3216

Knoell Bros. Construction, Inc.
Phoenix
602-275-7429

KPNX Television, Inc.
Phoenix
602-257-1212

Salt River Project
Phoenix
602-236-2479

Air Services International, Inc.
Scottsdale
602-948-2150

Tucson Police Department
Air Support Unit
Tucson
602-791-4142

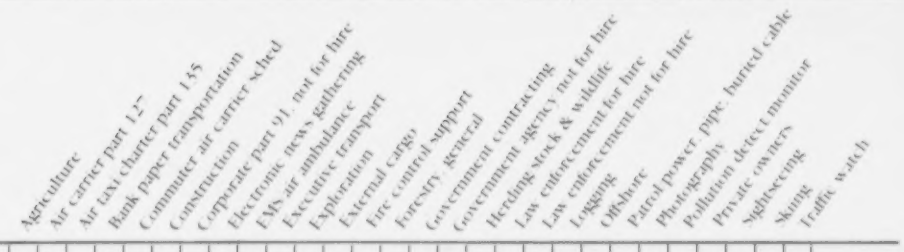
Yuma Helicopters, Inc.
Yuma
602-783-4300

ARKANSAS

Central Flying Service, Inc.
Little Rock
501-375-3245

CALIFORNIA

Northrop Corporation
Electro-Mechanical Division
Anaheim 714-441-4027



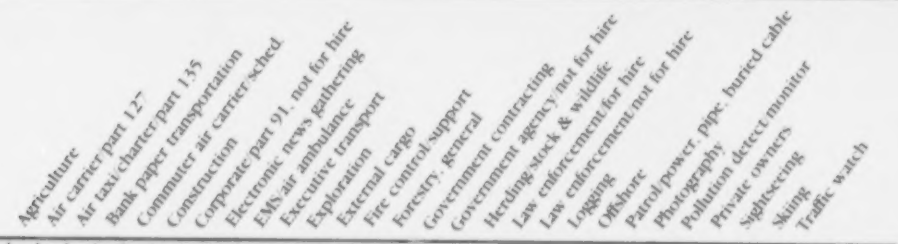
C.R.I. Helicopters Apple Valley 619-247-5845	☆		☆			☆		☆		☆	☆	☆		☆		☆					☆	☆	☆			☆				
K.W. Emerson, Inc. Arnold 209-795-1045							☆																							
Corwin D. Denney Beverly Hills 213-275-4589																								☆						
EJ Helicopters, Inc. (Electronic Journalism) Burbank 818-841-0401			☆					☆																						
County of Ventura Public Safety Aviation Unit Camarillo 805-484-3601								☆				☆			☆															
Monterey Peninsula Helicopters Carmel Valley 408-659-3898			☆			☆				☆		☆	☆		☆								☆			☆				
Southern California Edison Co. Chino 714-597-1881						☆	☆			☆	☆	☆									☆	☆	☆							
Rogers Helicopters, Inc. Clovis 209-299-4903	☆		☆	☆		☆		☆	☆	☆	☆	☆	☆		☆						☆	☆	☆			☆	☆			
Crane Helicopter Services, Inc. Fremont 415-657-3001			☆			☆				☆	☆	☆			☆							☆	☆							
Rancon Realty Fund IV & V Irvine 714-833-3200						☆	☆			☆														☆						
Infinity Aviation, Inc. Lincoln 916-645-8117			☆			☆				☆		☆	☆		☆							☆								
Arctic Air Service, Inc. Lompoc 805-735-3717			☆			☆		☆		☆	☆	☆			☆						☆	☆								
Associated Helicopter Services, Inc. Long Beach 213-420-2128	☆		☆	☆		☆		☆	☆	☆	☆	☆	☆		☆						☆	☆	☆			☆	☆	☆		
Island Express, Inc. Long Beach 213-491-5550			☆							☆													☆			☆				
California Federal Savings Los Angeles 213-932-4661							☆																							
Helitac Aviation, Inc. Los Angeles 213-483-6898			☆	☆				☆		☆													☆							
Security Pacific National Bank Los Angeles 213-613-6023							☆																							

	Agriculture	Air carrier part 127	Air taxi charter part 135	Bank paper transportation	Commuter air carrier sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect monitor	Private owners	Sightseeing	Skiing	Traffic watch
Commodore Helicopters at Fisherman's Wharf Mill Valley 415-332-4482		☆	☆				☆		☆					☆								☆	☆			☆		☆
NASA Moffett Field 415-965-5066															☆													
Cypress Helicopters Ltd. Monterey 408-372-1191	☆		☆			☆				☆	☆	☆	☆		☆						☆	☆	☆			☆		☆
Tamalpais Helicopters, Inc. Novato 415-897-8575			☆							☆																		
Helicopters Unlimited, Inc. Oakland 415-632-9422			☆	☆		☆			☆	☆		☆			☆						☆							
County of Los Angeles Fire Dept. Air Operations Pacoima 818-899-2556												☆			☆													
Pasadena Police Department Helicopter Section Pasadena 818-405-4625															☆			☆						☆				
Brian Chuchua's Jeep, Inc. Placentia 714-879-5337							☆			☆														☆				
Louisiana-Pacific Corp. Red Bluff 916-527-1371							☆			☆																		
Redding Air Service, Inc. Redding 916-221-2851			☆									☆		☆		☆					☆							
Western Helicopters, Inc. Rialto 714-829-1051			☆			☆				☆	☆	☆	☆		☆		☆				☆	☆			☆	☆	☆	
California Department of Forestry Sacramento 916-324-9689												☆																
KCRA TV - Kelly Broadcasting Sacramento 916-444-7300							☆	☆														☆					☆	
Verticare Salinas 408-422-0685	☆	☆	☆			☆				☆	☆	☆			☆						☆	☆			☆	☆		
ParkCentre Properties San Bernadino 714-381-5301							☆																					
Wilsey, Bennett Company San Francisco 415-391-4150							½☆			☆																		

Membership

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency, not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Almaden Vineyards, Inc. **San Jose** **408-269-1312**						☆																						
Aris Helicopters, Ltd. **San Jose** **408-998-3266**			☆			☆		☆	☆	☆	☆	☆	☆		☆		☆					☆	☆						
Aero-Executive Helicopters **San Luis Obispo** **805-544-3990**			☆			☆		☆	☆	☆		☆	☆		☆						☆	☆	☆			☆	☆	☆
TRIAD America International **Santa Barbara** **805-687-4882**										☆																		
Sonoma County Sheriff's Department Helicopter/SAR Bureau **Santa Rosa** **707-527-9595**								☆						☆			☆											
The Bob Bondurant School of High Performance Driving **Sonoma** **707-938-4741**							☆	☆														☆		☆		☆	☆	☆
Alexair **Torrance** **213-326-3338**			☆	☆				☆	☆													☆		☆		☆		☆
Helipad Aviation, Inc. **Dimensions Plus Helicopters** **Ukiah** **707-468-5510**			☆			☆	☆	☆	☆	☆	☆	☆	☆		☆		☆				☆	☆	☆			☆	☆		
Blakes Helicopter Service **Vacaville** **707-448-7278**						☆					☆	☆			☆							☆	☆		☆	☆		
Briles Wing & Helicopter, Inc. **Van Nuys** **818-994-1445**			☆	☆		☆		☆	☆	☆	☆	☆	☆		☆		☆			☆	☆	☆	☆			☆	☆	☆
City of Los Angeles **Van Nuys** **818-989-8574**						☆				☆		☆		☆								☆	☆					☆
Pegasus Helicopters, Inc. **Yuba City** **916-671-1500**			☆			☆	☆		☆	☆	☆	☆		☆		☆						☆				☆		
COLORADO																												
Mountain Bell Flight Operations Denver 303-398-5353						☆	☆			☆		☆										☆						
Public Service Co. of Colorado Denver 303-329-1032							☆															☆						
Air Methods Corporation Englewood 303-790-0587			☆					☆	☆																			
Colorado Airlift, Inc. Englewood 303-841-5552			☆			☆				☆	☆	☆					☆					☆					☆	

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency, not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect, monitor	Private owners	Sightseeing	Skiing	Traffic watch
Greystone Evergreen 303-674-2428						☆																						
Ptarmigan Helicopters, Inc. Evergreen 303-674-2487	☆		☆			☆			☆		☆	☆		☆							☆	☆						
Geo-Seis Helicopters, Inc. Fort Collins 303-484-3600			☆			☆		☆		☆	☆	☆		☆		☆			☆	☆	☆	☆				☆		
Redstone Aero Services, Inc. Grand Junction 303-242-4923			☆							☆				☆											☆		
Ag Air, Inc. Johnston 303-776-8944	☆									☆																		
CONNECTICUT																												
United Technologies Corporation Corporate Aircraft Department East Hartford 203-565-3596						☆																						
Executive Transport, Inc. d/b/a Cityhop Hartford 1-800-CITYHOP			☆		☆	☆			☆													☆			☆			
Hartford Helicopters, Inc. Hartford 203-522-1113			☆			☆		☆	☆													☆			☆			
The Travelers Corporation Hartford 203-277-3693						☆																						
Nor Air, Inc. Sharon 203-364-0450	☆					☆				☆	☆																	
Mobil Oil Corporation Stamford 203-328-7116						☆																						
AEtna Life & Casualty Windsor Locks 203-627-3060						☆																						
CIGNA Corporation Windsor Locks 203-726-4459						☆			☆																			
DISTRICT OF COLUMBIA																												
Gannett Co., Inc. Washington 703-661-8992						☆	☆															☆					☆	
U.S. Jet Aviation, Inc. Washington 703-892-6200			☆				☆	☆	☆				☆									☆			☆			



FLORIDA

William K. Carpenter
Boca Raton
305-368-0629

Knight Aviation Services, Inc.
Boca Raton
305-734-4199

Crescent Airways, Inc.
Hollywood
305-987-1900

Helicopter Services of Jacksonville, Inc.
Jacksonville
904-641-7398

Africair, Inc.
Miami
305-255-6973

Florida Power & Light Company
Miami
305-552-3858

Metropolitan Dade County Fire Department
Miami
305-233-5000

Tropical Helicopter Airways, Inc.
Miami
305-374-6055

WSVN-TV Channel 7
Miami
305-751-6692

Tampa Helicopters, Inc.
Oldsmar
813-855-3290

Aircoastal Helicopters, Inc.
Orlando
305-841-2769

Orlando Helicopter Airways, Inc.
Orlando
305-841-3480

Atlantic Helicopter Service
Palm Beach
305-659-3711

Aircoastal Helicopters, Inc.
West Palm Beach
305-471-1218

GEORGIA

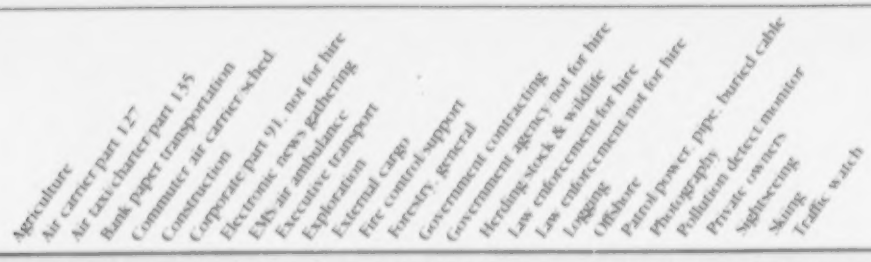
Dooley Helicopters, Inc.
Chamblee
404-458-3431

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect monitor	Private owners	Sightseeing	Skiing	Traffic watch
Mid-State/Executive Helicopters, Inc. Norcross 404-564-1901			☆			☆			☆	☆		☆				☆						☆	☆					☆
HAWAII																												
Maui Helicopters, Inc. **Kihei** **808-879-2622**			☆									☆			☆								☆			☆		
South Sea Helicopters, Inc. **Lihue, Kauai** **808-245-7781**			☆							☆		☆			☆								☆			☆		
IDAHO																												
Crew Concepts, Inc. Boise 208-344-4691			☆			☆			☆	☆	☆	☆									☆					☆		
Idaho Helicopters, Inc. Boise 208-344-4361	☆		☆			☆			☆		☆	☆	☆		☆						☆		☆			☆		
American Protective Services Idaho Falls 208-526-8033														☆			☆											
Bird Space Technology Sandpoint 208-263-2549								☆																				
Reeder Flying Service, Inc. Twin Falls 208-733-5920			☆			☆				☆	☆	☆	☆		☆						☆		☆			☆	☆	
ILLINOIS																												
Amoco Corporation **Chicago** **312-856-6667**							☆																					
Chicago Fire Department **Air/Sea Rescue Section** **Chicago** **312-744-4718**								☆			☆			☆			☆										☆	
Continental Illinois National Bank & Trust Company **Chicago** **312-923-3576**				☆			☆			☆																		
Executive Helicopter, Inc. **Chicago** **312-284-7385**			☆	☆				☆	☆	☆											☆	☆			☆		☆	
Sears Roebuck and Company **Chicago** **312-585-1282**							☆																					
Midwest Helicopter Airways, Inc. **Hinsdale** **312-325-7860**			☆	☆		☆		☆	☆	☆	☆		☆				☆											
Illinois State Toll Highway Authority **Oakbrook** **312-654-2200**														☆			☆				☆						☆	

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank, paper transportation	Commuter air carrier/sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency, not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Illinois Dept. of Transportation **Division of Aeronautics** **Springfield** **217-785-8380**							☆		☆	☆					☆			☆										
Perkinson Copters, Inc. **Warrensburg** **800-673-4323**	☆		☆				☆					☆		☆		☆					☆							
INDIANA																												
Black Beauty Coal Company, Inc. Evansville 812-424-9000							☆																					
Public Service Company of Indiana Plainfield 317-838-1575						☆	☆			☆											☆	☆						
KENTUCKY																												
Diamond Shamrock Aviation Co. **Lexington** **606-666-7581**							☆																					
Shamrock Coal Company **Manchester** **606-598-6151**							☆																					
LOUISIANA																												
Heli-Air, Inc. Broussard 318-856-8163			☆					☆	☆	☆	☆										☆				☆			
Air Logistics Lafayette 318-365-6771		☆	☆	☆				☆	☆	☆	☆	☆									☆	☆						
Industrial Helicopters, Inc. Lafayette 318-233-3356	☆		☆			☆			☆	☆	☆			☆		☆					☆	☆	☆		☆			
Petroleum Helicopters, Inc. Lafayette 318-235-2452			☆			☆		☆	☆	☆	☆			☆							☆	☆	☆					
ERA Helicopters, Inc. Gulf Coast Division Lake Charles 318-478-6131			☆			☆															☆	☆						
Mobil Oil Exploration & Producing Southeast, Inc. Morgan City 504-384-9550							☆		☆												☆							
Chevron U.S.A., Inc. New Orleans 504-241-2120							☆														☆							
Exuma Aviation, Inc. New Orleans 504-582-2444																									☆			

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect, monitor	Private owners	Sightseeing	Skiing	Traffic watch
MARYLAND																												
Baltimore Gas & Electric Co. **Baltimore** **301-234-5000**							☆			☆												☆	☆					
Security Ford Tractor, Inc. **Baltimore** **301-247-9600**							☆																					
D.O.C., Inc. **Bethesda** **301-951-1300**										☆																		
Whirlybird, Inc. **Timonium** **301-561-5870**			☆					☆		☆													☆			☆		
MASSACHUSETTS																												
Digital Equipment Corporation Bedford 617-276-4980							☆			☆																		
Simplex Time Recorder Co. Gardner 617-632-0451							☆																					
Data General Corporation Westboro 617-366-8911							☆																					
MICHIGAN																												
McMahon Helicopter Services **Canton** **313-459-5980**			☆					☆		☆												☆	☆					
Allied Automotive **Detroit** **313-941-2300**							☆																					
B & G Helicopter Corp. **Grand Rapids** **616-698-9050**			☆			☆				☆		☆										☆	☆			☆		☆
Metro Copters Incorporated **Whitmore Lake** **313-231-3861**							☆	☆															☆		☆			☆
MISSOURI																												
Anheuser-Busch Companies, Inc. Flight Operations Bridgeton 314-427-2201							☆																					
Dick Hill International Flight School, Inc. Springfield 417-485-3474															☆								☆			☆		☆
Emerson Electric Company St. Louis 314-426-1137							☆																					

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank, paper transportation	Commuter air carrier/sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS, air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency, not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Fostaire Helicopters St. Louis 314-421-5440		☆					☆	☆	☆		☆			☆							☆	☆			☆		☆
Helicopters, Inc. St. Louis 314-351-1400		☆					☆	☆	☆		☆			☆							☆	☆			☆		☆
St. Louis Helicopter Airways, Inc. St. Louis 314-532-1177		☆			☆		☆	☆	☆		☆			☆								☆					☆
NEBRASKA																												
Duncan Aviation, Inc. **Lincoln** **402-475-2611**		☆						☆	☆												☆	☆						
Gemini Aviation **Omaha** **402-393-2144**						☆				☆																		
NEVADA																												
El Aero Services, Inc. Elko 702-738-7123		☆							☆	☆	☆	☆		☆		☆					☆				☆	☆		
Collins Brothers Corporation Terrible Herbst, Inc. Las Vegas 702-736-6151						☆																						
Pine Belt of the Sierras, Inc. Reno 702-322-8558		☆			☆					☆	☆	☆		☆		☆					☆				☆			
Heavenly Valley Helicopters, Inc. Stateline 916-541-1330		☆			☆	☆		☆	☆	☆	☆					☆						☆			☆	☆		
NEW HAMPSHIRE																												
Aero Support, Inc. **Bedford** **603-644-3003**		☆	☆		☆				☆												☆	☆			☆	☆		
Joe Bringham, Inc. **Bow** **603-225-3134**		☆			☆				☆		☆										☆	☆						
New Hampshire Helicopters, Inc. **Hampton** **603-926-4949**		☆							☆					☆								☆			☆		☆	
The Henley Group, Inc. **Manchester** **603-627-4338**						☆			☆																			
Magnum Leasing & Mortgage Corp. **Nashua** **603-888-6500**		☆							☆																			
White Mountain Airways **North Conway** **603-356-2930**		☆							☆					☆				☆				☆			☆	☆	☆	☆



Frank L. Whitcomb
d/b/a Drewsville Airways
Walpole
603-445-5555

NEW JERSEY

Express Marine, Inc.
Camden
609-541-4600

J.F.C. Helicopter, Inc.
(J. Fletcher Creamer & Son, Inc.)
Edgewater
201-945-4200

Metropolitan Helicopter Service
Holmdel
201-946-8154

Warner Lambert Company
Flight Operations
Morris Plains
201-540-4901

Allied Signal Corporation
Allied Aviation Department
Morristown
201-455-6012

AT&T Resource Management
Aviation Division
Morristown
201-526-1400

New Jersey Bell Telephone Co.
Newark
201-649-2815

Public Service Electric and
Gas Company
Newark
201-430-6059

Analar Corp./Church & Dwight Co., Inc.
Princeton
609-683-4790

Alemdar Helikopter Servis Ltd.
S. Plainfield
201-756-1555

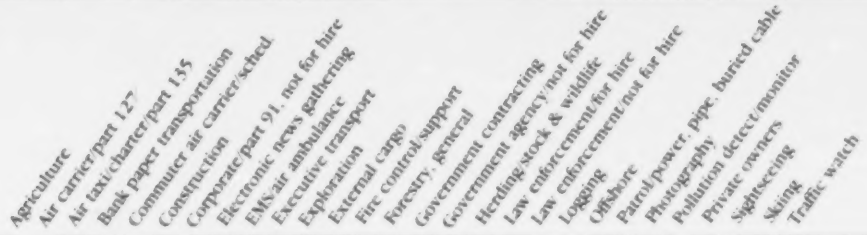
Schiavone Construction Co.
Secaucus
201-867-5070

Colgate-Palmolive Company
Teterboro
201-288-1811

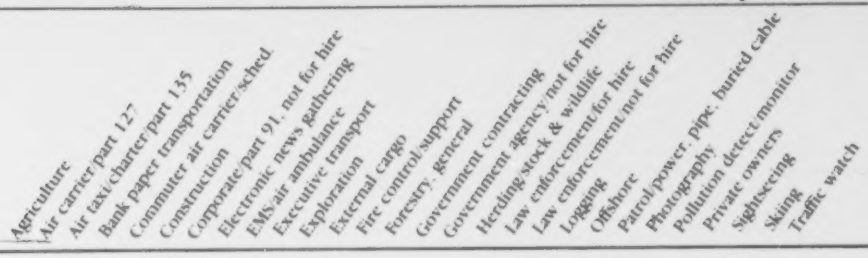
Executive Air Fleet Corporation
Teterboro
201-288-8400

Port Authority of New York and
New Jersey
Teterboro
201-288-2761

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Caesars Atlantic City Trenton 609-771-8071						☆																						
RCA Corporation Trenton 609-882-3420						☆		☆																				
Damin Aviation Corporation Weehawken 201-863-7200			☆	☆		☆	☆		☆												☆	☆					☆	
Golden Nugget Transportation Corp. Weehawken 516-294-8840						☆																						
Resorts International Airline, Inc. (RIA) Weehawken 201-865-6900		☆	☆		☆	☆			☆													☆			☆			
Dow Jones & Co. West Trenton 609-882-4516						☆																						
Pfizer, Inc. West Trenton 609-771-0550						☆																						
NEW MEXICO																												
Aero West Management Service, Inc. Albuquerque 505-243-9031	☆		☆			☆		☆				☆	☆		☆		☆						☆				☆		
Pay-Jay Air, Inc. Artesia 505-748-1331			☆				☆			☆						☆					☆	☆		☆	☆			
NEW YORK																												
New York State Police Albany 518-457-5929								☆	☆						☆			☆					☆					☆
State of New York Aviation Albany 518-457-1200								☆	☆		☆	☆			☆													
Aviation Services Unlimited Barneveld 315-896-2076			☆	☆		☆				☆	☆		☆	☆							☆	☆			☆	☆	☆	☆
Inland Aero Service, Inc. Batavia 716-343-4471	☆																											
GTS International, Ltd. Buffalo 716-856-6500									☆																			
International Union of Operating Engineers Local No. 138 Farmingdale 516-694-2480						☆	☆		☆											☆								

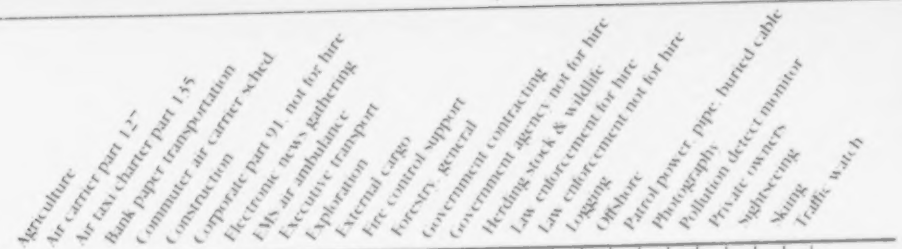


Island Helicopter Corporation Garden City 516-228-9355	☆		☆	☆	☆			☆	☆	☆													☆			☆		
Pan American World Airways New York 212-880-1017		☆	☆																									
WOR Radio New York 212-764-7000																											☆	
Heussler Air Service Corp. Niagara Falls 716-297-4497			☆					☆	☆	☆													☆	☆		☆	☆	
Villa Banfi Old Brookville 516-626-9200							☆																					
Thomson Industries, Inc. Port Washington 516-883-8000			☆				☆			☆																		
General Transportation Corp. Ronkonkoma 516-588-5321							☆																					
Fugazy Air, Inc. Spring Valley 914-352-8677			☆							☆					☆								☆	☆		☆		
Reavcom Services, Inc. Spring Valley 212-344-7920			☆	☆			☆			☆														☆				
I.B.M. Corporation Wappingers Fall 914-463-4400							☆			☆																		
Onandaga County Sheriff's Department Warners 315-425-3095									☆										☆					☆				☆
Kirby N.Y. Realty Company Westhampton Beach 516-288-4053							☆																			☆		
American Express Company White Plains 914-948-5311							☆																					
Bristol-Myers Company White Plains 914-761-5766							☆																					
Joseph E. Seagram & Sons, Inc. White Plains 914-761-4915							☆																					
View Top Corporation White Plains 914-428-8780							☆																					



Wayfarer Ketch Corporation White Plains 914-949-4424			☆				☆																						
NORTH CAROLINA																													
Triad Helicopters, Inc. **Winston-Salem** **919-767-4057**			☆					☆		☆												☆			☆				
NORTH DAKOTA																													
Executive Air Taxi Corp. Bismarck 701-258-5024			☆					☆	☆	☆					☆		☆					☆	☆						
Minnkota Power Co-op. Inc. Grand Forks 701-795-4430							☆																						
University of North Dakota Center for Aerospace Sciences Grand Forks 701-777-2791							☆			☆						☆													
OHIO																													
New Horizons Aviation, Inc. **Cincinnati** **513-232-1835**			☆					☆		☆												☆	☆					☆	
Helicopter Minit-Men, Inc. **Columbus** **614-486-9309**	☆											☆										☆	☆						
Dana Corporation **Swanton** **419-535-4625**							☆																						
OKLAHOMA																													
Tulsa Security, Inc. Tulsa 918-584-2431							☆			☆								☆				☆							
OREGON																													
Erickson Air Crane Co. **Central Point** **503-664-5544**						☆						☆		☆					☆										
Bertea/Aviation, Inc. **Corvallis** **503-753-4466**	☆		☆			☆		☆			☆	☆	☆	☆		☆			☆			☆	☆			☆		☆	
Bohemia, Inc. **Eugene** **503-688-6777**			☆			☆	☆		☆	☆		☆	☆										☆						
Heli-Jet Corporation **Eugene** **503-461-0310**	☆		☆			☆					☆	☆	☆	☆															
Hillsboro Helicopters, Inc. **Hillsboro** **503-648-2831**			☆					☆				☆		☆									☆			☆		☆	

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency not for hire	Herding/stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
Hospital Airtransport, Inc. Hillsboro 503-640-8294																												
United Telephone Company of the Northwest Hood River 503-386-0374							☆																					
Mid Valley Helicopters, Inc. Jefferson 503-327-1169	☆		☆	☆				☆		☆	☆	☆	☆		☆						☆				☆		☆	
Rambling Rotors, Inc. La Grande 503-963-5644	☆		☆			☆			☆			☆	☆		☆						☆	☆			☆	☆		
Evergreen Helicopters, Inc. McMinnville 503-472-9361	☆		☆	☆				☆		☆	☆	☆	☆						☆	☆	☆	☆						
Columbia Helicopters, Inc. Portland 503-678-1222			☆			☆				☆	☆	☆	☆						☆	☆	☆							
PacifiCorp Trans, Inc. Portland 503-243-7075							☆		☆												☆							
Portland General Electric Company Portland 503-226-8820							☆														☆							
Reforestation Services, Inc. Salem 503-362-8322	☆		☆							☆			☆		☆						☆							
TransWestern Helicopters, Inc. Scappoose 503-226-4731	☆		☆			☆			☆	☆	☆	☆	☆		☆						☆	☆			☆			
PENNSYLVANIA																												
Lehigh Valley Helicopter, Inc. **Allentown** **215-398-2988**									☆												☆							
Mack Trucks, Inc. **Allentown** **215-439-2102**							☆																					
WNEP-TV, A New York Times Co. **Avoca** **717-826-1616**								☆																				
Royale Helicopter Service, Inc. **Burgettstown** **412-947-3366**			☆			☆		☆	☆	☆				☆							☆	☆			☆		☆	
EmergyCare, Inc. **(Life Star Helicopter)** **Erie** **814-452-7602**									☆																			
Rorer Group, Inc. **Fort Washington** **215-628-6497**							☆																					



Ag Rotors, Inc.
Gettysburg
717-334-6777

Horsham Valley Airways, Inc.
Horsham
215-674-2100

Tri-County Helicopters
Myerstown
717-866-5795

Sterling Helicopter, Inc.
Philadelphia
215-271-2510

Sun Company, Inc.
Philadelphia
215-293-6586

Corporate Jets, Inc.
Pittsburgh
412-462-2800

Rockwell International Corp.
Pittsburgh
412-565-5814

USX Corporation
Aircraft Division
Pittsburgh
412-433-4833

Helicopter Systems, Inc.
Scottdale
412-887-4000

Conoco, Inc.
Aviation Department
W. Mifflin
412-469-0443

Keystone Helicopter Services
West Chester
215-644-4430

RHODE ISLAND

East Coast Helicopters, Inc.
Cumberland
401-769-5786

Textron, Inc.
Warwick
401-457-2358

SOUTH CAROLINA

Omniflight, Inc.
Charleston
803-762-1620

South Carolina Aeronautics Commission
Columbia
803-758-2766

	Agriculture	Air carrier part 127	Air taxi charter part 135	Bank paper transportation	Commuter air carrier sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect monitor	Private owners	Sightseeing	Skiing	Traffic watch
South Carolina Pipeline Corp. **Columbia** **803-788-3220**						☆			☆												☆							
Milliken & Company **Greer** **803-877-8338**						☆																						
TENNESSEE																												
Edwards & Associates, Inc. Bristol 615-538-5111			☆						☆				☆										☆			☆		
U.T. LIFESTAR, Aeromedical Services, University of Tennessee Knoxville 615-544-9112								☆																				
Thompson & Green Machinery Company, Inc. Lavergne 615-256-2424			☆			☆																						
TEXAS																												
Pumpkin Air, Inc. **Addison** **214-233-6464**			☆				☆	☆	☆	☆	☆		☆							☆	☆							
Tiller Helicopter Service, Inc. **Alice** **512-664-6453**	☆		☆	☆									☆		☆						☆	☆						
Helitron Corporation **Amarillo** **806-374-1922**			☆				☆		☆	☆					☆						☆		☆					
Austin Helicopter Service, Inc. **Austin** **512-476-7565**			☆	☆			☆		☆												☆	☆		☆		☆		
J & J Maintenance, Inc. **Austin** **512-444-7271**													☆										☆					
Gene Branscome Investments **Baytown** **713-420-5777**					☆	☆			☆						☆							☆						
Reem Air, Ltd. **Brownsville** **512-831-4482**			☆	☆		☆	☆	☆	☆	☆		☆		☆														
EDS Helicopter Division **Dallas** **214-661-6000**						☆			☆														☆					
Executive Airlift Helicopters, Inc. **Dallas** **214-330-8167**			☆						☆												☆	☆		☆		☆		
Lone Star Helicopters, Inc. **Dallas** **214-352-1033**			☆		☆	☆		☆	☆	☆	☆	☆		☆		☆					☆	☆		☆		☆		

	Agriculture	Air carrier part 127	Air taxi charter part 135	Bank paper transportation	Commuter air carrier sched	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS air ambulance	Executive transport	Exploration	External cargo	Fire control support	Forestry, general	Government contracting	Government agency not for hire	Herding stock & wildlife	Law enforcement for hire	Law enforcement not for hire	Logging	Offshore	Patrol power, pipe, buried cable	Photography	Pollution detect, monitor	Private owners	Sightseeing	Skiing	Traffic watch
Million Air Dallas 214-248-1600			☆				☆			☆												☆		☆	☆			
Recon Air, Inc. Dallas 214-960-8600			☆							☆											☆	☆						
Emory Aviation, Inc. Denison 214-786-3333							☆		/																			
City of Fort Worth Helicopter Services Fort Worth 817-870-8310										☆		☆			☆			☆				☆						☆
Armadillo Airways Helicopters Houston 800-231-4141			☆		☆					☆												☆			☆			
Exxon Company USA Houston 713-656-2503							☆				☆										☆							
Hermann Hospital-Life Flight Houston 713-797-4014								☆																				
Houston Pipe Line Company Houston 713-654-6828							☆																					
Phoenix Air Corporation Houston 713-784-2420			☆	☆						☆	☆										☆	☆	☆		☆		☆	
Shell Oil Company Houston 713-443-3881							☆																					
Tenneco, Inc. Houston 713-757-8107							☆														☆	☆						
Transco Energy Company Houston 713-821-1004							☆														☆							
Ty-Tua Inc., Aviation Service Subsidary of Smith Industries Houston 713-644-1081			☆			☆		☆	☆	☆				☆								☆	☆		☆		☆	
Benz Sales Company Hurst 817-282-1212						☆																		☆				
Midland Helicopters, Inc. Midland 915-561-9046						☆																		☆				
Houston Helicopters, Inc. Pearland 713-485-1777			☆			☆		☆		☆	☆	☆		☆							☆	☆	☆		☆			
D.H. Braman Company Victoria 512-526-2568							☆			☆					☆		☆					☆						

	Agriculture	Air carrier part 127	Air taxi/charter part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Government agency/not for hire	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
UTAH																												
Blackhawk Helicopters, Inc. Provo 801-375-9218			☆			☆			☆	☆	☆	☆	☆				☆					☆	☆						
Helicopters West, Inc. Provo 801-377-6200			☆					☆		☆	☆	☆	☆		☆								☆				☆		
Rocky Mountain Helicopters, Inc. Provo 801-375-1124	☆		☆			☆		☆	☆	☆	☆	☆	☆		☆		☆			☆		☆	☆				☆	☆	
VIRGINIA																												
Summit Helicopters, Inc. **Cloverdale** **703-992-5500**	☆		☆			☆				☆		☆	☆		☆							☆	☆						
Crippen Companies **Great Falls** **703-450-5650**						☆	☆			☆													☆						
City of Virginia Beach **Virginia Beach** **804-427-4192**															☆			☆					☆						
WASHINGTON																												
Cascade Helicopters, Inc. Cashmere 509-782-2915	☆		☆			☆			☆	☆	☆	☆	☆		☆		☆					☆	☆			☆	☆		
HiLine Helicopters, Inc. Darrington 206-436-1302			☆					☆			☆	☆		☆				☆								☆			
Eagle Air Helicopters, Inc. Forks 206-374-9276			☆			☆				☆	☆	☆		☆				☆				☆							
Liberty Helicopters, Inc. Port Roberts 604-946-5581			☆							☆			☆																
Rockwell International Hanford Operations Richland 509-373-1992														☆	☆			☆											
Aero-Copters, Inc. Seattle 206-763-2177		☆						☆	☆	☆	☆	☆		☆								☆	☆			☆	☆		
Pacific Lumber & Shipping Co. Seattle 206-682-7262			☆			☆		☆	☆	☆	☆											☆	☆			☆			
Puget Sound Helicopters, Inc. Seattle 206-762-8273										☆													☆					☆	
Weyerhaeuser Company Tacoma 206-241-2858			☆							☆	☆	☆	☆			☆							☆			☆			

	Agriculture	Air carrier/part 127	Air taxi/charter/part 135	Bank paper transportation	Commuter air carrier/sched.	Construction	Corporate/part 91, not for hire	Electronic news gathering	EMS/air ambulance	Executive transport	Exploration	External cargo	Fire control/support	Forestry, general	Government contracting	Herding/stock & wildlife	Law enforcement/for hire	Law enforcement/not for hire	Logging	Offshore	Patrol/power, pipe, buried cable	Photography	Pollution detect/monitor	Private owners	Sightseeing	Skiing	Traffic watch
WEST VIRGINIA																											
High Tech Applications, Inc. **Elkins** **304-636-5774**	☆		☆						☆	☆	☆			☆							☆	☆			☆		
WISCONSIN																											
S.C. Johnson Son, Inc. Racine 414-631-2707						☆																					
WYOMING																											
Hawkins & Powers Aviation, Inc. **Greybull** **307-765-4482**	☆		☆			☆			☆	☆	☆	☆	☆		☆		☆			☆	☆	☆			☆			

CALIFORNIA HELICOPTER INTERNATIONAL

The S58T ORIGINALLY DESIGNED AND BUILT BY SIKORSKY

We are the only manufacturer authorized by Sikorsky to produce the S58T

Affordable ★ Worldwide ★ Supportable

- *New Remanufactured Aircraft*
- *Complete line of spares*
- *New Kits*
- *Component Overhaul*
- *24 hour Technical Support*

USA:
2935 Golf Course Drive
Ventura, CA 93003
Tel. (805) 644-5800 Telex:6831165 CHI UW
FAX: 805 644-5132

SINGAPORE:
100 Beach Road
Shaw Towers #15-01
Singapore 0718
Telephone 296-2244 Telex: RS 33149 STNSEA

HOW TO BELONG

Helicopter Association International

"Whether a commercial, corporate or public service operator, small or large, a manufacturer, service company, supplier, insurer, broker or a believer in helicopters anywhere in the world, we must stand together on those areas where we clearly agree. Without a focal point, and without a structured exchange of communications amongst ourselves, we can't realistically expect to survive for long, let alone grow."

Wanda L. Rogers, HAI Chairman

The membership in the Helicopter Association International includes helicopter operators and owners, users, manufacturers and suppliers, service organizations, other groups with a common interest in helicopters and interested individuals. Members are classified according to their role in the industry.

REGULAR MEMBERS

Regular (voting) members are organizations which operate civil helicopters as a principal business, in private use as a business tool or in public service.

Annual dues for Regular Membership is based upon the number of helicopters operated. One helicopter . . . $400; 2-5 . . . $500; 6-19 . . . $600; 20-39 . . . $1,000; 40 or more . . . $1,400. Public service dues are 1-4 . . . $300; 5-14 . . . $450 and 15 or more . . . $500.

ASSOCIATE MEMBERS

Associate members provide certificated products, supplies or services to the civil helicopter industry and/or are lessors of helicopters rather than an operator.

Annual dues for Associate Membership is based upon the gross revenue of the company or division applying for membership.

Associate A — A prime airframe, rotor, or engine manufacturer directly engaged in the manufacture or development of helicopters, rotors, helicopter equipment or engines for helicopters, and offering a certificated product to the industry. A1 — $100M or more . . . $10,000; A-2 — $50M-$100M . . . $7,000; A-3 — $15M-50M . . . $6,000; A4 — $15M or below . . . $4,500.

Associate B — Manufacturers and suppliers of products and services other than as applicable to Associate A. B6 — $5m or more . . . $1,000; B-7 — $1M-$5M . . . $800; B-8 — $251K-1M . . . $600; B-9 — $250K or less . . . $225.

SUSTAINING MEMBERS

A Sustaining Member is any individual interested in following the events of the civil helicopter industry who earns less than 50 percent of his/her livelihood from civil helicopter operations, or who is an employee of an HAI member company. Officers, directors or employees of firms that qualify for Regular or Associate membership, but are not HAI members, are not eligibile.

Annual dues for Sustaining Members is $50.

STUDENT MEMBERS

Any individual interested in following the events of the civil helicopter industry who is a full or part time student in a flight training or A&P school, or a college or university.

Annual dues for Student Members is $30.

AFFILIATE MEMBERS

Affiliate Members are national, regional and international organizations whose purpose and interests are similar to those of HAI. Affiliate Members do not pay dues.

Directory of Associate Members

The following alphabetical listing of HAI Associate members provide certificated products, supplies or services to the civil helicopter industry and/or are lessors of helicopters. The ☐ indicates the telex number and the ♦ indicates the company's fax number.

A. Biederman, Inc.
P.O. Box 25003
Glendale, CA 91201-3095
☎ 818-246-8431 ☐ 315994
President: Richard Rockwood
Vice President: Steven W. Williamson
Director of Purchasing:
Peter J. Maher
Services: Sales and service of aircraft and industrial instrumentation.

A. E. Petsche Co., Inc
2112 West Division
Arlington, TX 76012
☎ 817-461-9473 ☐ 910-8904905 ♦ 817-277-2887
General Manager: Roger Studer
Vice President/Sales: Vern Hatley
National Marketing Manager:
Richard A.A. Hall
Services: Worldwide distributor of high temperature wire, cable and associated products specifically designed for the aviation, aerospace industry.

Abex Corporation
Aerospace Division
3151 West Fifth Street
Oxnard, CA 93030
☎ 805-985-0217 ☐ 215612
President: G.E. DeVillers
Vice President, Marketing:
B.L. Fuhrman
Director, Product Support:
R.L. Bell
Manager General & Rotary Sales:
Jack Kapich
Services: Manufacturers of hydraulic pumps, servo valves and integrated packages utilized on commercial and military helicopters.

Accessory Service Inc.
25139 Avenue Stanford
Valencia, CA 91355
☎ 805-257-2217 ☐ 662630
President: James L. Durbin
Vice President, Operations:
Robert M. Clemens
Marketing Manager: Laura A. Burd
Sales Administrator:
Katherine P. Rudolph
Services: Manufacture, overhaul and repair of hydraulic system components. HR Textron, Ronson & Abex authorized service center/dealer.

Accurate Bushing Co.
Div. of Ex-Cell-O Corp.
445 North Avenue
Garwood, NJ 07027
☎ 201-789-1121
Vice President/General Manager:
Brian Geissler
Marketing Manager: Charles Peterson
Sales Manager: John Kinsey
Services: Aircraft engine (turbine) bearings.

Advanced Navigation, Inc. (ANI)
7304 Grove Road
Frederick, MD 21701-7216
☎ 301-695-4040 ☐ 325994
President: Jimmie L. Toms
Sales Manager: Kenneth B. Foret
Services: Manufacture Loran-C Navigational equipment.

Aero Engineering Corporation
2000 Calumet Street
Clearwater, FL 33575
☎ 813-461-5758 ☐ 803882
President: Harry J. Barkett
Director of Marketing:
Michael F. Glass
Services: Manufacturer of helicopter air conditioning and heating systems.

Aero Support, Inc.
3215 E. Spring Street
Long Beach, CA 90806
☎ 213-595-1261 ☐ 656485
President: Frank S. Everts
Chief Financial Officer/Secretary:
Robert I. McCulley
Sales: Rick Schorling
Sales: David N. Jenkins
Services: Aircraft and helicopter sales; helicopter components and parts, repairs and sales. Also, manufacture a MD 500 battery kit.

Aero-Lift Consultants
5 Benton Street
Middleboro, MA 02346
☎ 617-946-0190
Proprietor: Marty Cole
Services: Marketing and pilot services.

Aeronautical Accessories Inc.
P.O. Box 3689
Bristol, TN 37625
☎ 615-538-5151 ☐ 553446
President: James Wolfe
Vice President: David Kent
Vice President/Marketing:
Rick Lewis
Director, Public Relations:
Timothy Landis
Services: Manufacture/sale of helicopter accessories, replacement windows, interior trim, and sale/distribution of engine and airframe spares & components.

Aronetics
2100 Touhy Avenue
Elk Grove Village, IL 60007
☎ 312-437-9500 ☐ 255594
Vice President Marketing: R.L. Young
Communications Manager:
Ann T. Baldwin
Services: Design and manufacture of navigational flight instruments including RMI's, HSI's, and gyros.

Aerosonic Corporation
1212 North Hercules Avenue
Clearwater, FL 33518
☎ 813-461-3000 ☐ 52897
President: Herbert J. Frank
Executive Vice President:
David Goldman
Director of Marketing:
David W. Garringer
General Manager/Wichita Division:
Ray Simpson
Services: Manufacture and distribute flight instruments, engine instruments, and simulator instruments.

Aerospatiale Helicopter Corporation
2701 Forum Drive
Grand Prairie, TX 75053-4005
☎ 214-641-0000 ☐ 730489
Chairman of the Board: Jean Quintard
President: Herbert H.B. Epstein
Vice President, Marketing:
Ron LaFleur
V.P., Customer Support: John Ntamtu
Director, Marketing Services:
Ralph Petragnani
Services: Helicopter manufacturing, sales, repairs, support services for North America.

Aerospatiale Helicopter Division
2-20 Avenue Marcel Cachin
La Courneuve, 93126, France
☎ 1-4838-9178 ☐ 212856
Managing Director: Michel Thomas
Assistant Managing Director:
Luc Barriere
Commercial Director:
Lucien Lordereau
Charge de Missions: J. Marie Besse
Product Support Director:
Yves Birotteau
Chief of Airworthiness:
Hubert Portet
Services: Helicopter manufacturer.

Aerospatiale Helicopters
BP. 13
Marignane Cedex, 13725, France
☎ 42-89-90-22 ☐ AISPA 410 975
Company Representative:
J. Claude Rebuffel
Services: Helicopter Manufacturer.

AeroTech Publications Inc.
35 Throckmorton Lane
Old Bridge, NJ 08857
☎ 201-679-5151
President: Marvin M. Stern
V.P., Sales/Marketing:
Susan Valentine
Services: Maintenance recordkeeping systems: adLog System: a complete record keeping system which organizes and centralizes all data for retrieval of all maintenance. For use with IBM, IBM PC and XT.

Aggressive Aviation Insurance
P.O. Box 5857
Northridge, CA 91323
☎ 213-999-6014
Executive Vice President:
Beverly Gassen
Services: Helicopter insurance.

Agusta Aviation Corporation
Norcom & Red Lion Roads
Philadelphia, PA 19148
☎ 215-245-8860 ☐ 6851181
President: Enrico M. Striano
Vice President, Marketing:
R.F. "Fritz" Harvey
Vice President of Operations:
Robert G. Shain
Vice President Business Development:
James Byrnes
Manager, Marketing Services:
Sue Godar
Director of Corporate Communications:
Marco Cicero
Services: Marketing, sales and support maintenance services for the Agusta Light Twin helicopter.

Aileron
2016 Cotner Avenue
West Los Angeles, CA 90025
☎ 213-477-3556 ☐ 595857
President: F. Dennis Holmes
Editorial Director: Jim Summers
Producer: Dave Jackson
Services: Aileron is a video cassette magazine for pilots and aircraft owners.

Air-Sure, Ltd.
2121 W. Spring Creek Parkway
Suite 102
Plano, TX 75023
☎ 214-596-9020 ☐ 881040
President: Bill Behan
Executive Vice President:
Brad Lowrey
Vice President: Todd Guelich
Services: Aviation insurance sales and service specializing in all rotor and fixed wing coverages. Special consulting services available.

Airborne Data Marketing Ltd.
1200 West 73rd Avenue
Suite 100
Vancouver, BC, V6P 6G5, Canada
☎ 604-266-3255 ☐ 04-357645
President: Murray Craig
Director, Public Relations:
Douglas Cowpar
Vice-President Marketing:
Britt Whitaker
Services: An aviation company which provides consulting services and computer based information and management systems to the aviation industry.

Aircraft Gear Corporation
6633 W. 65th Street
Chicago, IL 60638
☎ 312-594-2100 ☐ 270455
President: Ken M. Spurgeon
Executive Vice President:
Kieth E. Sladek
Vice President, Marketing & Sales:
George Baena
Vice President, Finance:
Sal Barbaro
Services: Manufacturer of gears, gearboxes and rotor shafts for helicopters.

Aircraft Marketing, Ltd.
414 Hungerford Drive - Suite 232
Rockville, MD 20850
☎ 301-424-9047 ☐ 150117
President: Louis J. Kaminsky
Vice President: Rhonda Sucher Kaminsky
Market Researcher: Glenn Kaminsky
Market Researcher: Greg Morris
Services: Business aircraft and helicopter brokerage and sales.

Aircraft Modular Products
4000 N.W. 36th Avenue
Miami, FL 33142
☎ 305-633-6817 ☐ 522876
Vice President: Roger Koch
Sales Manager: Robin Heslop
Services: Aircraft and helicopter seats.

Aircraft Parts Corporation
160 Finn Court
Farmingdale, NY 11735
☎ 516-249-3053 ☐ 961341
President: S. Sherman
Sales Manager: J. Galan
Chief Electrical Engineer:
R. Denniston
Chief Electronic Engineer:
F. Di Paola
Services: Manufacturer of turbine engine starter-generators & starter motors, piston engine starters, voltage regulators and generator control units.

Aircraft Technical Publishers
101 South Hill Drive
Brisbane, CA 94005
☎ 415-468-1705 ☐ 171048
President: Caroline Daniels
Services: Microfiche, telecommunications, service information and record keeping. Helicopter maintenance information on microfiche.

Airfoil Division of
Vac-Hyd Corporation
1177 Great Southwest Parkway
Grand Prairie, TX 75050
☎ 214-641-6720 ☐ 794921
Vice President & General Manager:
John Kasavich
Technical Manager: Ken Speirs
Marketing Manager: Earl Cole
Plant Manager: Chuck Roberson
Services: Airfoil is an authorized repair facility for Allison 250, Allison 501 and Lycoming T53 turbine components.

Airwork Corporation
Millville Municipal Airport
Millville, NJ 08332
☎ 609-825-6000 ☐ 178472
President: Frederick W. Becker
Marketing Manager: Terry Scott
Program Manager: Gary Schiff
Service Manager: Bob Holmes
Services: Airwork Corporation is an authorized distributor of the Allison 250 engine, offering complete overhaul, exchange or repair support.

Airwork Corporation
1740 N.W. 69th Avenue
Miami, FL 33126
☎ 305-592-3040 ☐ 83-1754
General Manager: Don Simmerer
Services: Allison 250 distributor. Allison 250 engine repairs, overhaul, and exchanges.

Alexander & Alexander Inc.
Aviation & Aerospace Division
100 William Street
New York, NY 10038
☎ 212-806-6600 ☐ 961007
Vice President & Managing Director:
Joseph M. Rosenthal
Broker: Louis E. Nunez
Services: Insurance placement, risk analysis, risk management and self insurance services.

All-System Aerospace
International, Inc.
29 Central Avenue
Hauppauge, NY 11788
☎ 516-582-9200 ☐ 221-654/497
President: Karl G. Zacek
Services: Airframe spares for U.S. manufactured helicopters. Also, handle export sales.

Allison Gas Turbine Division
General Motors Corporation
2001 S. Tibbs Avenue
Indianapolis, IN 46224-2420
☎ 317-242-5000 ☐ 6711029 ◆ 317-242-5100
General Manager: Blake Wallace
Director, Small Aircraft Engines:
G.H. Mayo
Manager, Model 250 Sales:
N.J. Blaskoski
Manager, Model 250 Product Support:
C.E. Wagner
Director, Public Relations:
D.G. O'Brien
Manager of Advertising: A.A. Perona
Services: Allison Gas Turbine Division manufactures small and large gas turbine engines used in rotary wings, fixed wings & industrial applications.

Alpha Aviation Insurance Agency, Inc.
377 Route 17
Hasbrouck Heights, NJ 07604
☎ 201-288-4831 ☐ 133545
President: Francis P. Brown
Vice President: Larry Mattiello
Susan Beck
Services: Aviation Insurance.

Alyeska Pipeline Service Co.
1835 S. Bragaw Street
Anchorage, AK 99567
☎ 907-265-8538 ☐ 25127
President: G.M. Nelson
Specialist/Aviation Services:
Joseph C. Lieto
Services: Crude oil pipeline.

Anavibe Services, Inc.
218 Front Road
Hawkesbury, ON, K6A 2S9, Canada
☎ 613-632-2502
President: Mike Charland
Services: Helicopter/powertrain vibration monitoring and diagnostic services. Trend analysis & predictive maintenance programs. Precision field balancing of rotor systems.

Anavibe Services, Inc.
P.O. Box 111910
Anchorage, AK 99511
☎ 907-345-1982
Vice President: Jerry T. Dennis
Services: U.S. branch office for Anavibe Services. Provides helicopter vibration monitoring and diagnostic service. Also, performs precision track and balance of rotor systems.

ARNAV Systems, Inc.
P.O. Box 23939
Portland, OR 97223
☎ 503/684-1600 ☐ 151649
Chairman & CEO: T.C. Achilles, Jr.
Vice President, Marketing:
Dennis B. Nichols
Marketing Manager: Joe LaFayette
Services: Avionics manufacturer.

Arabian American Oil Company
Aviation Department
Box 80
Dhahran, Saudi Arabia
☎ 876-2339 ☐ 601220 ✦ 876-1590
Manager, Aviation Department:
M.W. Townsend
Services: Oil exploration and production.

Arrow International
2611 S. Central Expressway
Dallas, TX 75215
☎ 214-421-7177
Vice President: Mark Kenner
Vice President, Marketing:
Fred Kenner
Vice President, Public Relations:
Bernie Rosen
Sales: Don Simon
Services: Unique two phase program designed to remove carbon, oil, grease and corrosion leaving a slick, friction-free, tension breaker coating.

ASCO Flight Watch
3066 Mercer University Drive
Suite 100
Atlanta, GA 30341
☎ 404-452-7654
President: Ben Farmer
Services: Computerized aviation software for aircraft maintenance, inventory control, flight scheduling and complete department record keeping.

Associated Aviation Underwriters
90 John Street
New York, NY 10038
☎ 212-766-1600 ☐ 125157
President: Daniel M. Izard
Senior Vice President:
Harold F. Hirt
Vice-President: Anthony Vlach
Vice-President: Edward Williams
Services: Aviation hull and liability insurance, manufacturer's products liability coverages and risk management operations surveys.

Associated Air Center
P.O. Box 20718
Dallas, TX 75220
☎ 214-350-4111 ☐ 732448
President: Lee Juan Lanford
Vice President/Marketing:
Roy Gilbreath
Executive V.P./Public Relations:
Jerry King
Vice President/Marketing:
Robert W. Smith
Services: AAC is a complete helicopter overhaul and completion center, avionics, VIP interiors, paint, air-conditioning, EMS.

ATC Flight Simulator Co.
1650 19th Street
Santa Monica, CA 90404
☎ 213-453-3557 ☐ 284687
President: Barry Grant
Marketing Manager: Emmet Ryder
Services: Manufacturer of fixed and rotary flight simulators.

Atlantic Aviation Corporation
233 Industrial Avenue
Teterboro, NJ 07608
☎ 201-288-1740 ☐ 13-4529
President: William Patrick
Executive Vice President:
Malcolm S. Graham
Vice President/General Manager:
John E. Craig, Jr.
Manager, Aircraft Maintenance:
Harold Pickens
Services: Authorized service center for Aerospatiale, Bell, MBB, Allison, Lycoming. Total support capabilities: maintenance/spares/completions.

Atlantic Richfield Company
P.O. Box 7087
Dallas, TX 75209
☎ 214-651-5260
Aviation Manager/Chief Pilot:
Robert M. Cone
Aviation Coordinator: John W. Brown
Services: Petroleum.

Austin Jet Corp.
P.O. Box 13063
Austin, TX 78711
☎ 512-472-8739 ☐ 322353
President: Kirk Hays
V.P. Helicopter Mktg. & Operations:
Ron Bower
Avionics Manager: Matt Gordon
Director of Maintenance: Tom Hoover
Services: Buy and sell used Bell helicopters in international market. Major airframe engine and avionics work on helicopters.

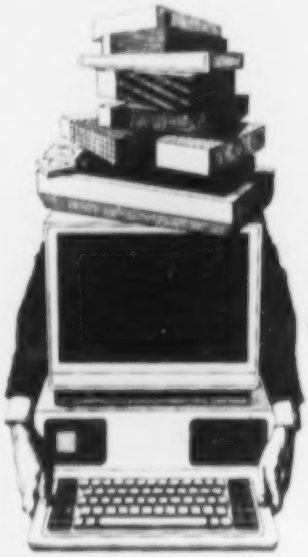
Avco Lycoming
Williamsport Division
652 Oliver Street
Williamsport, PA 17701
☎ 717-323-6181 ☐ 841415
President: Howard M. Knutson
Vice President/Sales: Phillip Boob
Senior Vice President:
Duane J. Drees
Services: Turbine and reciprocating piston engine manufacturing and refurbishment.

Avco Lycoming Textron
550 South Main Street
Stratford, CT 06497
☎ 203-385-2000 ☐ 964242
President: John R. Myers
V.P. Commercial Programs:
Martin J. Leff
Manager, Marketing Communications:
Louis P. Savenelli
Director, Aviation Engine Marketing:
Joseph A. Muriello
Services: Manufacturer of military/commercial aviation, vehicular and marine gas turbines. Also, complete maintenance operation center for all repairs and engine overhauls.

Avfuel Corporation
625 State Circle
Ann Arbor, MI 48104
☎ 313-663-6466
President: Craig R. Sincock
Vice President: Craig Faiman
V.P., Marketing/Sales:
William B. Light
V.P., Public Relations: Bob Shepherd
Services: Nation's leading independent supplier of aviation fuels. Distributors for: Phillips, Shell, Sun, Amoco, Sohio, Union 76, and Avfuel Brand.

Aviall, Inc.
P.O. Box 7086
Dallas, TX 75209-0086
☎ 214-357-1811 ☐ 730601
President: R.G. Lambert
Executive Vice President:
J.L. Wallace
Group Vice President: G.F. Price
Vice President: D.W. Taylor, Jr.
Services: Major worldwide repair source for airline and general aviation & distributor of aircraft part & supplies. Aircraft support services.

Aviation Business Consultants Inc.
7507 S. Tamiami Trail
Suite 176
Sarasota, FL 33581
☎ 813-921-4941
President: Stephanie V. Slavin



HAI's Helicopter Hotline

is ready to give you the information you need to survive in today's competitive business environment. All you need is just a computer/modem call away . . .

- •Employment Opportunities
- •Government Contracts
- •Critical Airworthiness Directives
- •Manufacturer's Alerts
- •Malfunction or Defect Reports
- •FAA Proposed Regulations
- •Safety Information (Including Preliminary Accident Reports)

HAI has entered the high tech world of information telecommunications. The Helicopter Hotline is running standard communications software on an IBM PC-AT compatible machine with two modem lines, 703-683-6488, 89 or telephone Ed DiCampli, Information Manager, for details on how you can hook-up to the Helicopter Hotline, (703) 683-4646. Keep up-to-date on the latest developments in the industry. It's the only way to stay one step ahead of the competition.

Vice-President, Marketing:
Max A. Williams
Administrative Assistant:
Anette Le Pome
Services: Development of heliports and helicopter transportation systems for cities, international airports, corporate office parks, and hospitals.

Aviation Consulting Inc.
1615 Northern Boulevard
Manhasset, NY 11030
☎ 516-627-7676 ☐ 647044
President: William B. Watt
Senior Vice President: John L. Conte
Vice President: Noel G. Preston
Vice President: Jack B. Feir
Services: Safety evaluations, helicopter comparative evaluations and selection plans, helicopter & equipment appraisals, mishap investigations, and market planning.

Aviation Equipment Maintenance Magazine
7300 N. Cicero Avenue
Lincolnwood, IL 60646
☎ 312-588-7300
Publisher: Jack J. Howlett, II
Editor: Paul Berner
Promotion Manager: Arthur J. Kinnune
Marketing Manager: Jim Chrzan
Services: Monthly magazine for persons involved in professional maintenance, repair, overhaul and modification of fixed and rotary wing aircraft and ground support equipment.

Aviation Financial Management
11010 Rainier Avenue South
Seattle, WA 98178
☎ 206-772-2255 ☐ 322366
President: Mel Finnell
Services: AFM has business management software designed for the general aviation industry.

Aviation Fuel Cells International
5680 Shelby Drive
Memphis, TN 38115
☎ 901-362-2355 ☐ 55835
President/CEO: G.R. Bass
Executive Vice President:
C.L. Lanza
Director of Sales: Patrick Manning
Plant Manager: Kendrick Davis
Services: Remanufactured fuel cells (overhauled) and helicopter floats. New and reman exchange available—24 hour/7 day service. (5 year warranty reman cells).

Aviation Instrument Services
12213 S.W. 131 Avenue
Building A-7
Miami, FL 33186
☎ 305-251-7200 ☐ 52-5110
President: James J. Sensale
Services: Sale or exchange of all types of helicopter instruments. We also purchase used instruments.

Aviation Insurance Center, Inc.
601 Penn Square Center
P.O. Box 938
Reading, PA 19603-0938
☎ 215-374-4040 ☐ 902-252 ♦ 215-374-6578
Chairman of the Board:
James R. Loomis
President: Jay Lavenson
Director of Operations: Peter Meshin
Services: Insurance of all forms for helicopter operators and owners—either personal or commercial. Managing office for special insurance program covering Schweizer/Hughes Model 300C helicopters.

Aviation Office of America Inc.
Love Field
Terminal Building
Dallas, TX 75235-2841
☎ 214-353-1400 ☐ 73363
President: Peter O'Grady
Vice President/Marketing:
William H. Gossell
Services: Underwriters providing worldwide facilities for all forms of aviation insurance.

Avio Sales & Service Corp.
P.O. Box 574
Holmdel, NJ 07733
☎ 201-671-0875 ☐ 756483
President: Lawrence G. Smith
Services: Manufacturers' rep (sales) for aircraft components. Distributors of aircraft components and complete line of cabin amenities and expendables.

Aviotex/TABS
3158 Redhill Avenue
Suite 270
Costa Mesa, CA 92626
☎ 714-557-9210 ♦ 714-557-4119
Chairman of the Board/CEO:
Pascal Mahvi
President: Willy Kraiem
Vice-President of Marketing:
M.P. ("Yancey") Bissonnette
Services: TABS - Total Aviation Briefing Service. Color graphic weather briefing and flight planning service.

B & D Instruments, Inc.
209 W. Main Street
Valley Center, KS 67147
☎ 316-755-1225 ☐ 457067
President: Howard P. Botts
Vice President/Marketing:
David D. Dahl
General Manager: John K. Nims
Sales Manager: Dennis Snyder
Services: Manufacture true airspeed computers with cockpit and cabin digital displays, aircraft engine instruments, aircraft ordinance signs and utility lights. Manufacture air data computers.

Baker Electronics, Inc.
1754 Northgate Boulevard
Sarasota, FL 33580
☎ 813-355-7625 ☐ 803720 ♦ 813-355-9241
President: E.E. Baker
Vice President/Marketing:
Eugene A. Sway
Assistant Director/Marketing:
Robert Duffield
Services: Manufacturer of aircraft pilot and cabin audio systems, includes passenger briefing systems and stereo/chime/page systems.

Barfield Instrument Corp.
4101 N.W. 29th Street
Miami, FL 33142
☎ 305-871-3900 ☐ 518808
Chief Executive Officer:
J.W. Barfield
President: Preston Barfield
Vice President, Service: Neil Cole
Branch Manager, Atlanta Office:
Ernie Kennemore
Services: A/C instrument overhaul & exchange service. Manufacturer of ground support test equipment.

Bayly Martin & Fay Aviation Insurance Services Inc.
3200 Wilshire Boulevard
Los Angeles, CA 90010
☎ 213-386-8120 ☐ 674671
President: Ronald A. Hill
Senior Vice President:
Richard Gorsuch
Vice President: Storm Bartling
Services: Full service, multi-line insurance brokerage firm.

Bayly Martin & Fay of Washington, Inc.
2001 Sixth Avenue, Suite 1050
Seattle, WA 98121
☎ 206-441-1400 ☐ 68-38028 ♦ 206-443-9411
Chairman: Elliott S. Tremaine
President: Anthony H. Cowan
Vice President: Lila Benson
Aviation Production: Michael Weaver
Services: International aviation insurance brokers. We specialize in insuring commercial helicopter operators.

Bayly, Martin & Fay, Inc.
841 Chestnut Street, Suite 340
Philadelphia, PA 19107
☎ 215-923-7300 ☐ 834567
Senior Vice President:
Roger C. Gustafson
Vice President: Anne B. Salemmo
Services: All forms of aviation insurance.

Beaufort Air-Sea Equipment Limited
Beaufort Road
Birkenhead
Merseyside, L41 1HQ, England
☎ 051-652-9151 ☐ 629478
President: A. Thomson
Vice President/Marketing:
M.J. Corbett
Export Manager: P. Stavropoulos
Services: Designer and manufacturer of safety and survival equipment including liferafts, lifevests, and immersion suits.

Bell Helicopter Asia (Pte) Ltd.
50 Loyang Way
Singapore 1750, Singapore
☎ 65-542-2422 ☐ RS50555
Managing Director:
William J. Maddox, Jr.
Marketing Manger: Walter K. Caudill
Customer Support: Jim Tuggey
Controller: Donald C. Pantle
Services: Helicopter marketing, spares support, technical support and training.

Bell Helicopter Textron Inc.
P.O. Box 482
Fort Worth, TX 76101
☎ 817-280-2011 ☐ 758229 ♦ 817-280-3631
President: L.M. (Jack) Horner
Senior V.P., Corporate Relations:
Dwayne K. Jose
Senior V.P., Commercial Marketing:
Gainor J. Lindsey
V.P., Commercial Marketing:
James A. Hamilton
Director, Public Affairs:
Carl L. Harris
Director, Safety & Certification:
Paul R. Powers
Chief of Training: Loren Doughty
Services: Rotary wing aircraft manufacturer and sales of new and used helicopters.

Bendix Aerospace (Allied Signal Inc.)
1000 Wilson Boulevard
Arlington, VA 22209
☎ 703-276-2000 ☐ 710-955-0903
President, Bendix Aerospace:
William C. Purple
President, Bendix Aircraft Systems Co.:
Frank M. Adams
V.P. Marketing, Bendix Aircraft Systems Co.:
Robert A. Stoltz
Director Product Support, Bendix Aircraft:
Roland T. Zapata
Director Communications:
Donal G. Erskine
Services: Bendix Aerospace supplies a broad range of sophisticated systems, subsystems, and components to military, air transport, general aviation aircraft and industrial markets.

Boeing Vertol Company
P.O. Box 16858
Philadelphia, PA 19142
☎ 215-522-2121 ☐ 845205 ♦ 215-522-2701
President: Joseph Mallen
Executive Vice President:
Donald R. Chestnut
Director/Marketing: John Hayden
V.P./Customer Support & Business Dev.:
William P. Jones
Vice President/JVX Program:
C.W. Ellis
Vice President/Engineering:
Ken Goina
Services: Helicopter manufacturer.

Bow Rotors
Division of Bow Properties Inc.
P.O. Box 4054
Lancaster, CA 93539-4054
☎ 805-942-5770 ☐ 322516
President: Ian Bowker
Secretary-Treasurer: Mindy J. Putnam
Services: Helicopter consultants. Leasing, brokering and component locator services. Additional phone number is 818-997-1077.

Brackett Aircraft Co., Inc.
7045 Flightline Drive
Kingman, AZ 86401
☎ 602-757-4005
President: Robert R. Brackett
Vice President, Marketing/Sales:
Rex C. Sagely
Services: Brackett Aircraft manufactures external drop hooks and platforms, helicopter movers, engine filers, and dual ground handling wheels for Jet Rangers.

Breeze-Eastern
Division of Transtechnology Corp
700 Liberty Avenue
Union, NJ 07083
☎ 201-686-4000 ☐ 138212
President: Ralph Hutchins
Vice President/General Manager:
Gene Foley
Vice President Marketing/Sales:
Larry O'Shaughnessy
Sales/Marketing Supervisor:
Zoltan J. Varsanyi
Services: MFG aircraft accessories, winches, hoists, air personnel & cargo rescue hoists, gear boxes, antenna drives, tie downs, release hooks, actuators & missile launchers.

Breitling, Halcyon Watch Co.
47 Water Street
Norwalk, CT 06854
☎ 203-853-2141
President: Brian Pennell
Booth Coordinator: Gregory Gladstone
Services: Watch importing and sales.

Bristol Aerospace Limited
P.O. Box 874
Winnipeg, MB, R3C 2S4, Canada
☎ 204-775-8331 ☐ 075777
President: J. A. Bowden
Vice President/Marketing:
Keith F. Burrows
Vice President/Operations:
W. A. Bergman
Marketing Manager: Robert R. Dungey
Services: Repair and overhaul of rotary wing aircraft. Manufacturer and distributor of wire strike protection system-helo transmission test-composites.

Business & Commercial Aviation (News America Corporation)
Hangar "C-1"
Westchester County Airport
White Plains, NY 10604
☎ 914-948-1912 ☐ A
Publisher: David W. Ewald
Editor & Associate Publisher:
John W. Olcott
Advertising Director: G.S. Worden
Services: Monthly business magazine serving worldwide fixed and rotary wing aircraft.

BVR, Inc.
P.O. Box 6546
Rockford, IL 61125
☎ 815-874-2471 ☐ 25-7552
President/CEO: Roger G. Glavin
Vice President/Sales:
Charles E. Alberts
V.P. Engineering: Charles Schiferl
Secretary & Treasurer: E.L. Madru
Services: Manufacture of ADI, HSI, BDHI, RMI, CDI, ADF.

C.E. Heath & Co. (Aviation) Ltd.
150 Minories
London, EC3N 1NR, England
☎ 01-488-2488 ☐ 8813001
Executive Director: R. Marsh
Services: Insurance brokers.

C.P. Waggoner
P.O. Box 531667
Grand Prairie, TX 75053
☎ 214-988-0376
General Manager: William C. Turner
Sales Representative:
Jeffery E Rogers
Services: Aircraft sealants and acrylics.

California Helicopter International
2935 Golf Course Drive
Ventura, CA 93003-7604
☎ 805-644-5800 ☐ 6831165 ♦ 805-644-5132
President: Gary Podolny
Executive V.P. Marketing:
Harry R. Smith
Vice President/General Manager:
W.E. Jake Dangle
Services: Airframe remanufacturing, conversion and overhaul/repair station (FAA certified).

Camp Systems, Inc.
Long Island MacArthur Airport
Ronkonkoma, NY 11779
☎ 516-588-3200 ☐ 144577
President: Daniel J. Ryan
Executive Vice President:
Wayne G. Hoppner
Vice President/Operations:
Anthony F. Costa
Vice President/Sales & Service:
Robert B. Leonard
Services: Computerized aircraft maintenance programs: batch processed (CAMP), standalone turnkey (CAMP/DISPATCH),and hosted mainframe (LINGO).

Canadian Marconi Company Avionics Division
2442 Trenton Avenue
Box 16
Montreal, PQ, H3P 1Y9, Canada
☎ 514-341-7630 ☐ 05827822
V.P. Avionics Division: L. Leveille
Group Mgr., Commercial Avionics:
G. Gibbs
Mktg. Mgr., Commercial Avionics:
H. Schlachta
Manager, Marketing Services:
Roger Hart
Services: Design, manufacture and marketing of avionics products and ground-based navaids: (MLS,ILS,VOS,DVOR).

Carter Engineering Co., Inc.
232 S. Glasgow Avenue
Inglewood, CA 90301
☎ 213-649-0111 ☐ 4979680
President: G.W. Carter
Director of Marketing: C.R. Wilson
Chief Engineer: George Leventis
Services: Manufacturer & distributor: headsets, helmets, microphones, audio mixer systems, airborne searchlights and PA/siren units.

Casey Copter Accessories Ltd.
P.O. Box 121
Montreal AMF
Dorval, PQ, H4Y 1A5, Canada
☎ 514-636-6155 ☐ 05-821574
President: Anthony J. Casey
Vice President/Marketing:
Michael J. Casey
Services: Manufacturer of Casey shroud heaters and air conditioners for Bell 206, Hughes 500, MBB B0105 and Agusta 109.

Castleberry Instruments & Avionics
817 Dessau Road
Austin, TX 78753
☎ 512-251-3441 ☐ 767150
President: Don R. Castleberry
General Manager: D. Bigbee
Marketing Manager: Russell Muffins
Manager, Rotory-Wing:
Michael J. Morgan
Services: New/exchange sales, overhaul/repair/certification of rotor-wing & fixed-wing aircraft instruments.

Chadwick, Inc.
11969 S.W. Herman Road
Sherwood, OR 97140
☎ 503-692-0570 ☐ 360652
President: Russell D. Chadwick
Executive Vice President:
Margie L. Chadwick
Vice President, Marketing:
Daniel Graaf
Marketing Manager: Laurie Parsons
Services: Manufacturers of agricultural, cargo, fuel, fire-fighting systems, and electronic aircraft scales for ground support.

Chadwick-Helmuth Co.
4601 N. Arden Drive
El Monte, CA 91731
☎ 213-575-6161 ☐ 194271
President: James Chadwick
Field Services Engineer: Roger Fick
Services: Track & balance equipment used on helicopter and propeller rotors. Manufacturer of VIBREX.

Champion Spark Plug Company
P.O. Box 910
Toledo, OH 43661
☎ 419-535-2463 ☐ 212552
Supervisor/Aviation Customer Service:
J.T. Quinn
Services: Manufacturers of aviation spark plugs, jet igniters and oil filters.

Chandler Evans Control System Division
1 Charter Oak Boulevard
West Hartford, CT 06101
☎ 203-236-0651 ☐ 99285
President: Jack O. Nash
Vice President/Marketing:
John M. Maljanian
Vice President/Manufacturing:
D.W. Gilchrist
Manager/Product Support:
F. DeFronzo
Services: A leading manufacturer of helicopter jet engine fuel controls, fuel pumps and missle flight controls.

Chase, Rotchford, Drukker & Bogust
700 South Flower Street
Suite 500
Los Angeles, CA 90017
☎ 213-626-8711
Partner: Vincent Fish
Services: Aviation defense law firm.

Chelton, Inc.
P.O. Box 976
Lewisville, TX 75067
☎ 214-221-1783 ☐ 795555
President: Geoff Cooper
Executive Vice-President:
William J. Garlough
Vice-President: Michael S. Wilkerson
Services: Manufacturers of antennas, homing systems, static dischargers and test equipment.

Chopper Shopper/Aero Trader Magazine
14549 62nd Street North
Clearwater, FL 33520
☎ 1800-2578711
President: Stuart Arnold
V.P., Marketing/Sales: Lou Terasi
Department Manager: Gary M. Krebs
Services: Chopper Shopper, worldwide listings for buying, selling or trading helicopters and related equipment.

Chromalloy Compressor Technologies
P.O. Box 20148
4430 Director Drive
San Antonio, TX 78220
☎ 512-333-6010 ☐ 767480
Vice-President/General Manager:
Fred Spagnoletti
Director of Operations:
Ron Slothower
Director of Advanced Technology:
Leonard Hampson
Technical Support Representative:
Dale H. Farnsworth
Services: Overhaul, repair and coatings of gas turbine components.

Chromalloy Division-Oklahoma
1720 National Boulevard
P.O. Box 10699
Midwest City, OK 73054
☎ 405-732-6811 ☐ 748599
Director, Technology: John Zelahy
V.P. Marketing & Technology:
Daniel R. Stoller
Manager of Commercial Operations:
James R. Shaw
Manager, Customer Service:
Jack R. Rumsey
Services: Manufacture, overhaul and repair of turbine engine components.

David Clark Company Inc.
360 Franklin Street
Worcester, MA 01613-0155
☎ 617-756-6216 ☐ 920482 ♦ 617-753-5827
President: John E. Flagg
Vice President: Darald R. Libby
General Sales Manager:
Robert J. Murphy
Aviation Products Manager:
Ronald F. Premo
Services: Manufacturer of noise attenuating

headsets with noise cancelling microphones and voice activated intercoms.

CMI Aircraft Corporation
2600 Telegraph Road
P.O. Box 2600
Bloomfield Hills, MI 48303
☎ 313-456-0000 ☐ 499-4188
Director of Marketing: Louis C. Seno

Collins Avionics
Rockwell International
400 Collins Road, N.E.
Cedar Rapids, IA 52498
☎ 319-395-2978 ☐ 464421
President, Rockwell Int'l:
Donald R. Beall
President, Collins:
James L. Churchill
Exhibits/Marketing: Raymond A. Walsh
Services: Manufacturer of flight control, navigation and communication systems.

Communications Specialists Inc.
426 W. Taft Avenue
Orange, CA 92667
☎ 800-854-0547
President: Spence A. Porter
Vice President, Marketing:
Mike Beveridge
Chief Pilot: Mike Klein
Services: Manufacturer of the TR-720 handheld airband transceiver.

Composite Technology, Inc.
P.O. Box 8219
Stockton, CA 95208
☎ 209-466-4285 ☐ 359435
President: Timothy J. Hachman
Vice President, Operations:
Dana H. Kerrick
Services: Repair, overhaul, sales & rental of main and tail rotor blades. Factory and FAA authorized service center for composite and metal blades.

CompuTec
1224 Third Street
Suite 4
Corpus Christi, TX 78404
☎ 512-884-5501
President: Jarel Pittman
Vice President: Robert Lawson
Secretary: Dyke Henderson
Public Relations: Dave Gehling
Services: Designers of aviation peculiar software and hardware applications. Specializing in integrated maintenance and material management systems for aircraft fleets.

Computer Training Systems, Inc.
218 Rue Louis XIV
Suite D
Lafayette, LA 70508
☎ 318-984-1096
President: James Boots
Services: Helicopter computerized pilot training.

Computing Technologies for Aviation (CTA)
P.O. Box 7624
Charlottesville, VA 22906
☎ 804-971-7624
President: Neil Armstronng
Vice-President: Fred Powell
Maintenance Coordinator:
Trish Snopkowski
Services: Computing services: scheduling, reports, maintenance, airline interface, weather and flight plan interface in house.

Concorde Battery Corp.
2009 San Bernardino Road
West Covina, CA 91790
☎ 818-962-4006 ☐ 5106013859
President: Paul Godber
Marketing Manager: John Timmons
V.P. Engineering: J.A. Orsino
Sales: Don Godber
Services: Manufacture a complete line of lead acid aircraft batteries and ground support equipment batteries.

Costruzioni Aeronautiche Giovanni Agusta S.p.A.
Via Sicilia 43
00187 Rome, Italy
☎ 0331 220478 ☐ 614398
Chairman of the Board: Raffaelo Teti
Vice President/Helicopter Division (Milan):
Bruno Lovera
Vice President: Pietro Fascione
Services: Manufacturer of Agusta designed helicopter. Sikorsky, Bell and Boeing Vertol overhaul and repair.

Cyberstar
3650 Airway Drive
Santa Rosa, CA 95401
☎ 707-546-2222
Chief Operating Officer: Jim Thomas
Marketing Manager: Steven Rossiter
Service Manager: Carl Hewes
Marketing Administrator:
Gayle Fitzgerald
Services: Design and manufacture turbine engine monitor system, bar graph engine indicators with solid state design and Bard data computer.

Dale & Company Limited
1140 De Maisonneuve Blvd., West
Montreal, PQ, H3A 1M8, Canada
☎ 514-281-1154 ☐ 055-61096
National V.P. Aviation Div.:
Jacques Rene de Cotret
Services: Aviation insurance brokerage company.

Daniel Systems, Inc.
Hangar 102
Opa Locka Airport
Opa Locka, FL 33054-2527
☎ 305-685-6286 ☐ 518748
President: Raymond Shinkle
Vice President, Marketing:
Al Fernandez
Services: Computerized aviation systems covering helicopter maintenance, spares inventory, flight logs and scheduling.

Daniels Manufacturing Corp.
6103 Anno Avenue
Orlando, FL 32809
☎ 305-855-6161 ☐ 564321
President: William A. Daniels
Vice President, Marketing:
George G. Daniels
Sales & Marketing Manager:
John Jago-Ford
Customer Service: Tina Holder
Services: Connector maintenance systems, ground support equipment, hand and tool kits.

Dayton-Granger, Inc.
3299 S.W. 9th Avenue
Fort Lauderdale, FL 33315
☎ 305-463-3451 ☐ 510-955-9760 ♦ 305-761-3172
President: J.D. Cline
Executive Vice President:
G.D. Cline
Vice President, Marketing:
Jerry Fricke
Southeastern and Midwestern Regional Mgr.:
Jim Gillis
Services: Manufacturer of airborne antenna systems, electrostatic protection equipment, lighting protection devices and portable survival radios.

Defense News
6883 Commercial Drive
Springfield, VA 22159-0100
☎ 703-642-7330
Publisher: Jack Kerrigan
Editor: Richard Barnard
Administrative Assistant:
Susan Hudachek

DeVore Aviation Corporation
6104B Kircher Boulevard, N.E.
Albuquerque, NM 87109
☎ 505-345-8715 ☐ 660436
President: Gilbert DeVore
Vice President: Arnold Robinson
Director, Marketing: Jonathan Bent
Marketing Representative:
Richard Carr
Services: Manufacture tel-tail rotor lights, forward facing recognition lights and HELI-PLASI visual approach aid system. System design consulting.

Dorne & Margolin, Inc.
2950 Veterans Memorial Highway
Bohemia, NY 11716
☎ 516-585-4000 ☐ 5102286502
Vice President, Marketing:
Richard O'Neill
Services: Design, manufacture, and factory service of airborne communication, satcom, navigation antennas, homing systems, ELT's and ground portable ELT homing systems.

Downing Electronics, Inc.
10218 Donna Avenue
Northridge, CA 91324
☎ 818-360-5791
President: James R. Downing
Services: Manufacturer of heliport lighting systems and prefabricated heliports.

Eastern Aero Marine
3850 N.W. 25th Street
Miami, FL 33142
☎ 305-871-4050 ☐ 514737
President: Samuel Oroshink
Director of International Sales:
John Swiman
Director of Technical Services:
Larry Levine
Sales Manager: Ross M. Hallen
Services: Eastern Aero Marine manufactures life rafts, life perservers and air/sea rescue devices. FAA Repair Station #4341, inflatables and compressed gas systems.

Eberhard Klemens
P.O. Box 2228
Naperville, IL 60566
☎ 312-416-1999
Owner: E. Klemens
Services: Lessor of helicopters - (206L/1,300C/1).

EG & G Rotron - Custom Division
7-9 Hasbrouck Lane
Woodstock, NY 12498
☎ 914-679-2401
President: Dan Riley
Product Manager: Tom Gates
Manager, Marketing: Peter Stewart
Manager, Marketing Communications:
Peter W. Rakov
Services: Fans and blowers for electronics cooling and environmental ventilation.

Electronic Display Systems Inc.
2321 Topaz Drive
Hatfield, PA 19440
☎ 215-822-6090 ☐ 84-6113
President: Derick Jones
Director, Marketing: Frank LeVien
Director, Engineering: Neil Mazurek
Marketing Assistant:
Susan Steinley Bockmeyer
Services: Manufacture dichroic/twisted nematic liquid crystal displays and modules for aerospace markets.

Ellason Weather Radar
Ellason Avionics, Inc.
739 Spirit of St. Louis Blvd.
Chesterfield, MO 63017
☎ 314-532-3031
President: Bill Ellason
Marketing Manager: Arnold Lane
Services: Manufactures ground-based weather radar.

Embry-Riddle Aeronautical University
Center for Independent Studies
Daytona Beach Regional Airport
Daytona Beach, FL 32041
☎ 904-252-5561
Director, Independent Studies:
Thomas W. Pettit
Director, Public Relations:
Ron Marlar
President/CEO: Kenneth I. Tallman
V.P./Chancellor-Int'l Campus:
Charles S. Williams
Services: Receive college credit for your aviation experiences and earn an accredited Embry-Riddle Bachelor degree in the privacy of your own home through independent study.

Enstrom Helicopter Corporation
Twin County Airport
P.O. Box 277
Menominee, MI 49858
☎ 906-863-9971 ☐ 261912
President & CEO: George B. Rahman
Vice President, Marketing:
Paul L. Shultz
Vice President, Operations:
John Hansen
Vice President, Engineering:
Robert L. Jenny
Services: Manufacture three-place turbocharged piston-engined helicopters: models F-28F and 280FX.

Essex Industries, Inc.
7700 Gravios Avenue
St. Louis, MO 63123
☎ 314-832-4500
President: Sidney Guller
Vice President/Operations:
Keith Guller
Sales Manager: Mitchell D. Waldman
Public Relations: Elizabeth Estes
Services: Essex designs, develops and manufactures multi-function pilot grips, hydraulic neumatic and fuel valves, flame arrestors, and various other components for the engine and aircraft industry.

Execaire, Inc.
University Place
124 Mt. Auburn Street, Suite 200
Cambridge, MA 02138
☎ 617-536-8717
President: Mitchell Bronfman
Vice President: Michael S. Leavitt
Services: Aircraft management, scheduling and maintenance software systems.

Executive Instruments, Inc.
P.O. Box 216
4141 Lindberg Drive
Addison, TX 75001
☎ 214-239-0231 ☐ 73368
Vice President: Wayne Holmes
Operations Manager: James R. Garrett
Services: Certified repair facility for instruments.

FAPA - Future Aviation
Professionals of America
4291-J Memorial Drive
Atlanta, GA 30032
☎ 404-294-0026
President: Louis Smith
Director of Operations: Bill Morris
Vice President, Marketing:
Kit Darby
JET JOBS Referral Systems Manager:
Charles Stalnaker
Services: FAPA is a pilot/flight attendant/mechanic career information service. FAPA also offers an aviation resume service and job referral system. The toll-free number is 1-800-JET-JOBS.

Facet Enterprises, Inc.
Fluid Technology Group
8439 Triad Drive
Greensboro, NC 27409-9621
☎ 919-668-4444 ☐ 510-922-7551
Group Vice President: Vincent Riley
Director, Marketing: James F. Frahm
Manager, Advertising & Promotions:
Dianne Vander Beek
Plant Manager: Anthony Simone
Services: Manufacturer of filters for hydraulics, lube oil filters, fuel filters, ground support, refueling, transmission filters, and acoustic media.

FFV Maintenance
Aircraft Systems Division
S-58182 Linkoping, Sweden
☎ 4613109100 ☐ 50026
Vice-President, Aircraft Systems Division:
Carl-Erik Johansson
Technical Manager, Aircraft:
Hans Molander
Services: Repair, overhaul & modifications of helicopter airframes, hydraulic & fuel systems, dynamic components, rotor blades, radio-radar navigation, instruments & engines.

FitzWright Suits Ltd.
17919 Roan Place
Surrey, BC, V3S 5K1, Canada
☎ 604-576-9424 ☐ 04-54208
Marketing/Sales Manager: Peter Rowe
Sales Co-ordinator: Julie Russell
Services: Manufacture safety apparel for marine use.

FLIR Systems, Inc.
16505 S.W. 72nd Avenue
Portland, OR 97224
☎ 503-684-3731 ☐ 510-101-0797
President/CEO: Clark Wingert
V.P., Marketing/Sales: William Shaw
Manager, International Sales:
Frederick Donohue
Domestic Sales Manager: John Speer
Services: FSI manufactures a high performance dual field of view airborne thermal imaging system for helicopter applications.

Flight Accessory Services
11310 Sherman Way
Sun Valley, CA 91352
☎ 213-875-2930 ☐ 698154
President: W.M. Marshall
Vice President: Richard A. Fortner
Vice President/Technical:
Lynn Fortner
Vice President/Finance: Jeff Belzer
Sales Manager: Roger Rusk
Repair Station Manager: Jim Frye
Services: Overhaul and repair of hydraulic flight controls.

Flight International Magazine
Business Press International-USA
205 E. 42nd Street
New York, NY 10017
☎ 212-867-2080 ☐ 238327
U.S. Advertising Sales Manager:
Clive Richardson
Services: Publishing.

Flight Line Manager
3100 Airway - Suite 155
Costa Mesa, CA 92626
☎ 714-545-2000

President: Michael P. Penrose
Services: Flight Line Manager provides software and hardware for aircraft flight line operations such as maintenance and inventory control.

Flight Suits, Ltd.
1675-D Pioneer Way
El Cajon, CA 92020
☎ 619-440-6976 ☐ 295478
President: James Wegge
Services: Manufacture flight suits, jackets, gloves, helmets. SPH-4 helmets and parts available.

FlightSafety International
Marine Air Terminal
LaGuardia Airport
Flushing, NY 11371
☎ 718-565-4100 ☐ 667573UW
President: A.L. Ueltschi
Executive Vice President:
Bruce N. Whitman
Vice President, Marketing:
James S. Waugh
Vice-President Government Affairs:
Al Gleske
Services: Pilot and mechanic training school.

Fluorocarbon Technologies Inc.
7040-A Bembe Beach Road
Annapolis, MD 21403
☎ 301-268-6451 ☐ 386950 FTCA
Chief Executive Officer:
Robert Young
President/Chief Operating Officer:
Richard Hargrove
Director of Marketing:
Michael O'Sullivan
Services: Developers of high performing fluorocarbon penetrating lubricants for industrial, aviation, and marine use. Drag and debris reduction coatings.

Flying Magazine (CBS)
1515 Broadway - 10th Floor
New York, NY 10036
☎ 212-719-6951
Assoc. Publisher/Advertising:
Dick Koenig
Editor: Richard Collins
Publisher: Jay Durfee
Marketing Director: Pat Luebke
Services: Publish Flying Magazine

Foster Air Data Systems,Inc.
7020 Huntley Road
Columbus, OH 43229
☎ 614-888-9502 ☐ 5101005279
President: Mike Smyser
Vice President, Sales:
Dennis Schmidt
Services: Manufacturer of area and long range navigation systems; and multi- station tracking DME/TACANS.

Foxtronics, Inc.
6614 Waddell Avenue
Dallas, TX 75235
☎ 214-358-4425 ☐ 730647
President: Carl H. Fox
Secretary/Treasurer: Kay Owens
Production Support: Herman Wilson
Services: Avionics repair, GPU manufacturer and repair, and consultants.

FPT Industries Ltd.
The Airport
Portsmouth
Hampshire, P03 5PE, England
☎ 0705-662391 ☐ 86106
Managing Director: C.F. Cooper
Commercial Director: W.B.D. Wardle
Financial Director: C.J. Wall
Services: Manufacture and repair/overhaul of all types of flexible fuel cells. Also, supply emergency flotation equipment and other inflatables.

Frasca International, Inc.
606 S. Neil Street
Champaign, IL 61820
☎ 217-359-3951 ☐ 206549
President: Rudy A. Frasca
Vice President, Marketing:
John B. Huismann
Project Director: John A. Frasca
Project Director:
L. Martin Hendrickson
Services: Manufacturer of rotary and fixed-wing flight simulators.

Fred S. James & Co. of Georgia Inc.
500 Atlanta Financial Center
3333 Peachtree Road, N.E., #500
Atlanta, GA 30326
☎ 404-237-8444 ☐ 804403
President/Aviation Division:
Charles Botts
Assistant Vice-President/Aviation:
Jeffrey Zito
Marketing Executive/Aviation:
Nancy P. Gratzer
Services: Insurance brokerage and consulting.

Fujinon Inc.
672 White Plains Road
Scarsdale, NY 10583
☎ 914-472-9800 ☐ 6818115
President/CEO: Hitoshi Kawamura
G.M., Special Products:
Charles Y. Nemoto
Marketing Manager: J. Brooks
Services: Gyrostablized optic binoculars for air, sea, and land. 10 x 40 and 14 x 40 power. GSA contract FSCM 64991.

Gables Engineering, Inc.
P.O. Box 140880
Coral Gables, FL 33114-0880
☎ 305-442-2578 ☐ 441107
President: Victor E. Clarke
Vice President, Operations:
Charles E. Rogers, Jr.
Director of Marketing: Don J. Brown
Sales Manager: Terry Parsons
Services: Designers and manufacturers of digital and analog audio systems, single and multifunction frequency control systems, miscellaneous control and junction boxes.

The Garrett Corporation
9851 Sepulveda Boulevard
Los Angeles, CA 90009
☎ 213-776-1010 ☐ 664684 ♦ 213-417-6625
President: Roy H. Ekrom
Senior V.P., Sales & Marketing:
Frederick G. Deragon
Vice President/Engineering:
John Mason
Director, Corporate Communications:
Dave Franson
Manager, Corporate/Public Relations:
John Meyer
Corporate Manager, Exhibits:
Richard E. Callison
Manager, Corporate Advertising:
Jolene McClenaghan
Services: Manufacturer, turboshaft, turbofan & turboprop engines. APV's, cockpit & cabin pressurization & environmental control systems for rotary & fixed wing aircraft; pneumatic & hydraulic actuation systems.

General Electric Company
1000 Western Avenue
Lynn, MA 01910
☎ 617-594-7617 ☐ 6817065
General Manager: L.A. Bevilacqua
Vice President/Government Relations:
William J. Crawford
Manager, Press Relations:
Robert Salvucci
Services: Development & manufacture of helicopter engines for military and commercial use.

Genisco Technology Corporation
Transucer Products Division
650 Easy Street
Simi, CA 93065
☎ 805-581-3985 ☐ 910-494-4782
General Manager: Werner Brinkschulte
Aviation Products Manager:
Felix H. Medak
Marketing Manager: John E. Smith
Services: Manufacturer of accelerometers and pressure transducers used in hydraulic, brake, oxygen and fuel systems. Authorized repair station for parts of our manufacture.

Geophysical Service Inc.
Mail Station 3407
P.O. Box 225621
Dallas, TX 75265
☎ 214-995-7680
Vice President: Harry Lake
Personnel: Al Wynn
Safety: Bill Turney
Aviation Safety: Peter E. Laux
Services: Geophysical. Oil and gas exploration.

Georgetown Aircraft Services
Sussex County Industrial Airpark
Georgetown, DE 19947
☎ 302-856-7333 ☐ 508850
President: Thomas Gollicker
Vice President: Parker Meegan
Services: Aircraft interior, exterior, avionics, modification and completions.

Geteca, USA-France
5535 Balboa Boulevard
Suite 202
Encino, CA 91316
☎ 213-995-3655 ☐ 65-1333
President: Michel Roussel

Executive Vice President:
Lawrence G. Ainsworth
Services: Representing major French aircraft and aerospace equipment manufacturers in North America.

The GIC Group
P.O. Box 1291
15 River Street
New Rochelle, NY 10801
☎ 914-576-2702
President: Stephen G. Glatzer
Vice President: Joseph De Lorenzo
Assistant to the President:
J. Goodman
Services: Manufacturers of emergency locator transmitters; direction finders; "Super Sensitive Receivers"; voltmeters; replacement batteries for ELTs

Global-Wulfsberg Systems
2144 Michelson Drive
Irvine, CA 92715
☎ 714-851-0119 ☐ 68-1340
Vice President & General Manager:
Gary Glynn
Vice President/Sales & Marketing:
H. Jack Hanslip
Manager/Marketing Services:
R. Scott Mackey
Services: Manufacturer of airborne radiotelephones, VHF AM, VHF & UHF FM communications and VHF AM base stations.

Golar Metal, Inc.
Box 247
Lionville, PA 19353
☎ 215-363-5864 ☐ 322233 ♦ 215-363-7259
President: Jan Hansen
Sales Manager: Gerard E. Bourgeault
Services: A lightweight, pre-engineered aluminum helideck and associated support equipment, including stairs, ramps, refuelling systems.

Frank B. Hall Aviation
3200 Wilshire Boulevard
Los Angeles, CA 90010
☎ 213-386-3700 ☐ 194144
President: John Cizek
Executive Vice President:
Joseph D. Mankawich
Senior Vice President:
William Newell
Services: Specialists in aviation insurance of all types.

Hawker Pacific Pty., Ltd.
4-8 Harley Crescent
Condell Park, N.S.W., 2200, Australia
☎ 02-708-8555 ☐ AA121168
Managing Director: C.M. Ryland
Director: I.J. Blackie
Technical Manager: D.E. O'Neill
Sales/Service Manager: A. H. Hendry
Services: Maintenance/overhaul: rotary wing maintenance approval (D.O.A. Australia) up to 10,000KG. Allison 250, Continental & Lycoming piston engine overhaul.
D.O.A. approved training school.

Hazeltine Corporation
Cuba Hill Road
Greenlawn, NY 11740
☎ 516-266-5623 ☐ 6852393
President: S.J. Nuzzo
Vice President, Marketing:
J.R. Colarusso
Director, Public Relations:
J.W. Evans
MLS Marketing Manager: S. Leibman
Services: FAA and ICAO standard microwave landing systems for airports and heliports and applications where precision IFR approaches are required.

HELICOPTER International
75 Elm Tree Road
Locking, Weston-Super-Mare
Avon, BS24 8EL, England
☎ 0934-822524 ☐ 44220
Publisher: Elfan Ap Rees
Vice President, Marketing/Sales:
Linda L. Cook
Administrator, Subscriptions:
Joan Probert
Editorial Assistant: Claire Ap Rees
Services: Bimonthly international news magazine with regional columns for Canada, Offshore Europe, Pacific, etc. Plus fortnightly HELIDATA newsletter service.

Heavylift Marketing, Inc.
7205 Corporate Center Dr., #400
(N.W. 19th Street)
Miami, FL 33126
☎ 305-591-2272 ☐ 522384
Chairman of the Board: P. McGoldrick
Vice President: Alastair Macleod
Services: Represents airlines specializing in long range transport of bulky and heavy air freight. Transport systems for helicopters. Toll Free # (1-800-231-6339)

Heli-Dyne Systems Inc.
P.O. Box 18967
Fort Worth, TX 76118
☎ 817-282-9804 ☐ 758619
Senior Vice President: Doug Evans
Vice President, Int'l. Sales:
Don Krause
Vice President, Sales: Tony Rumpel
General Manager: Art Westergren
Services: A full service helicopter completion center: FAA repair station, avionics, instruments, maintenance, overhaul, custom paint and interiors, logistics and EMS.

Heli Plex Inc.
432-B West Fork Drive
Arlington, TX 76012
☎ 817-277-9024 ☐ 794979
President: Herman H. Waldrup
Vice President: Floyd E. Hathcoat
Services: Replacement helicopter windows, helicopter design consultants, accident investigation, specialty design, maintenance tools armament subsystems.

Heli-Mart Inc.
Atlantic Aviation Center
3355 E. Spring St. - Suite 3014
Long Beach, CA 90806
☎ 213-427-0444 ☐ 653500
President: Don Nichols
Vice President: John Halstead
Sales Manager: Ed Brown
Services: New and serviceable helicopter spare parts and accessories sales company.

Helicomb International, Inc.
6956 E. 13th Street
Tulsa, OK 74112
☎ 918-835-3999 ☐ 796168
President: Robert R. Austin
Services: Repair and manufacture of all adhesive bonded honeycomb assemblies. Military, commercial and all models of helicopters.

Helicopter Accessory Service Inc.
7608 San Fernando Road
Sun Valley, CA 91352
☎ 818-767-2214 ☐ 466273
President: Jim F. Bagge
General Manager: Jerry R. Hill
Vice President/Marketing & Sales:
John F. Bagge
Vice President/Public Relations:
Claire J. Bagge
Services: Helicopter Hydraulic servo, pump, valve, repair, overhaul, exchange, component rework, spare parts, test equipment, nondestructive testing.

Helicopter Leasing & Services, Inc.
4616 W. Alva Street
Tampa, FL 33614-7645
☎ 813-877-7670 ☐ 526590
President: Charles W. Brammer
V.P./Marketing/Sales:
William E. Roach, Jr.
V.P./Public Relations: Marty Andrews
Director of Structural Estimating & Sales:
Francis "Andy" Andrews
Services: Authorized service and major structural repair facility for Bell, McDonnell-Douglas, Schweitzer/Hughes 300, Aerospatiale, and MBB. Authorized service facility for Aviall and Teledyne Neosho.

Helicopter Services, Inc.
State Airport
Warwick, RI 02886
☎ 401-738-4055
President: Vincent V. Colicci
Secretary/Treasurer:
Jesse G. Colicci
Supervisor, Maintenance:
James R. Murphy
Chief Mechanic: Gregory A. Gouvin
Services: CRS station 4392, Bell service station, authorized Airwork service center.

Helicopter Support Australia
P.O. Box 777
Kununurra, 6743, Australia
☎ 091-682-129 ☐ 99873
Managing Director: John E. Clifford
Director: Peter J. Clifford
Secretary: Carolyn I. Clifford
Services: Airframe, engine, component repair and overhaul. Field servicing, Robinson service centre.

Helicopter Support, Inc.
P.O. Box 947

89 Marsh Hill Road
Orange, CT 06477
☎ 203-795-6051 ☐ 963550
President: Renzo J. Pierpaoli
Executive Vice President:
David Adler
Treasurer: Mona Pierpaoli
Secretary: Jeanne Summit
Services: Helicopter parts distribution/component overhaul.

Helicopter Technology Co., Inc.
P.O. Box 371515
Decatur, GA 30037-1515
☎ 404-981-7729
President/Owner: Harold W. Symes
Services: Provides services to operators; i.e. Stiller Brothers and Rocky Mountain Helicopters, Inc.

Helicopter Welders of Canada Ltd.
6631D Elmbridge Way
Richmond, BC, V7C 4N1, Canada
☎ 604-273-9681 ☐ 04355820
President: Croft W. Wilkinson
General Manager: W.C. (Bill) Gallop
Services: Airframe repairs for Bell, Aerospatiale and Hiller helicopters. Specialized welding, exhaust systems. Jig and fixture building for commercial and military airframes.

Helilease International Inc.
30 N. Raymond Avenue
Suite 406
Pasadena, CA 91103-3916
☎ 818-449-0753 ☐ 194250
President: Bruce D. Gray
Vice President, Marketing:
Alfred T. Chisholm
Services: Leasing, financing & sales of select helicopter equipment along with consulting services to the industry.

Heliport Consulting Services
11 West 16th Street
Linden, NJ 07036
☎ 201-862-0392
President: Raymond A. Syms
Services: Heliport development and helicopter operation consulting - feasibility, design, obtaining of appropriate certifications, expert reports and testimony, safety/operational evaluations and studies.

Heliport Systems, Inc.
A-E Division
163 Madison Avenue
Morristown, NJ 07960
☎ 201-540-0011 ☐ 220883
President: William E. Davis
Vice President: Blair F. Baldwin
Engineer: Peter Matera
Services: Professional heliport site selection, zoning and engineering design with special expertise in cost-effective rooftop heliport construction, fire protection and refueling.

Helitune Ltd.
1 Graham Road, Malvern
Worcester, WR14 1HL, England
☎ 6845-69292 ☐ 335626
Managing Director: C.J. Styles
Commercial Director:
David A. Bloxham
Director/Engineering & Technical Support:
N.E. Trigg
Technical Director: W.A. Clearwaters
Services: Rotor tracking, dynamic balancing and vibration analysis for front line service and to provide headquarters database for fleet analysis.

Helivia International
7353 South Ivy Way
Englewood, CO 80112
☎ 801-427-3727 ☐ 45885
President: Loran E. Patterson
Vice President: Barry Kaplan
Services: Specialists in international helicopter operations, leasing and sales.

Hermetic Aircraft Instrument Corporation
200 Marine Street
Farmingdale, NY 11735
☎ 516-694-6780 ☐ 961329
President: William Brown
Vice President, Marketing:
Michael J. Harvey
Executive V.P./General Manager:
Louis J. Francisco
Program Manager: Joseph Golden
Services: Warranty, overhaul & repair agency for U.S. & European manufacturers, specializing in French manufactured equipment, also sales and distribution.

Hitchcock Industries, Inc.
5353 Hitchcock Drive
Dennison, TX 75020-8496
☎ 214-786-6000 ☐ 730294
Executive Vice President:
Gregory T. Hitchcock
Services: Supplier of non-ferrous castings to helicopter manufacturers.

Hoover Industries, Inc.
P.O. Box 522357
Miami, FL 33152
☎ 305-888-9791 ☐ 514782
President: Ken Chase
Director/Sales & Marketing:
Charles A. Floyd
Services: Manufacturer of FAA approved life rafts and life vests and survival kits.

Houston Casualty Company
13403 Northwest Freeway
Houston, TX 77040
☎ 713-462-1000 ☐ 775999
Vice President: Michael J. Donovan
Vice President: William G. Halligan
Vice President: Donald O. Thomas
Vice President: James D. Hyberg
Services: Insurance.

Howell Instruments, Inc.
3479 W. Vickery Boulevard
Fort Worth, TX 76107
☎ 817-336-7411 ☐ 758253
President/Overseas: Leon Becker
Chief Pilot: Paul Wheeler
Services: Manufacturer of indicators and turbine testing equipment.

Howmet Turbine Components Corporation
475 Steamboat Road
Greenwich, CT 06836-1960
☎ 203-661-4600 ☐ 643725
President/CEO: Charles Yaker
Senior Vice President:
Joseph L. Mallardi
Senior Vice President:
Harry J. Hamiltan
Vice President: Michael E. Higgins
Services: Investment cast parts for turbine engines.

HR Textron, Inc.
25200 W. Rye Canyon Road
Valencia, CA 91355-1256
☎ 805-259-4030 ☐ 651492
President: Peter Gandell
General Manager, Product Support:
Dwayne P. Ehlers
VP Corporate Marketing:
Louis A. Drazin
VP HR Division: David T. Stewart, Sr.
VP Marketing & Programs:
Craig V. Johansen
Services: Hydraulic flight controls, electrohydraulic servovalves, actuators, electronic controls, fuel valves & accessories, fluid filters, automatic test equipement. Overhaul, repair, exchange & spares.

Hynes Aviation Industries, Inc.
P.O. Box 697
Frederick Industrial Park
Frederick, OK 73542
☎ 405-335-5711 ☐ 955439
President: Michael K. Hynes
Vice President/Administration:
Gary J. Merritt
Vice President/Technical Services:
Kevin P. Hynes
Manager of parts/customer service:
Tom Shandor
Services: Repair station and training facility. Also, airframe manufacturers and research & development for rotorcraft.

II Morrow, Inc.
P.O. Box 13549
Salem, OR 97309
☎ 503-581-8101 ☐ 510599011O
President: Ray E. Morrow, Jr.
Vice President: James Morrow
Vice President/Marketing:
Michael G. Duff
Director of Engineering:
Robert Bronson
Technical Sales Manager: Sam Seery
Services: Manufacturer of Loran navigation systems and vehicle tracking systems.

Imperial Oil Limited
Air Transport & Reservations
111 Saint Claire Avenue West
Toronto, ON, M5W 1K3, Canada
☎ 416-968-4491 ☐ 06524255
Manager, Air Transport & Reservations:
D.E. Green
Chief Engineer: E.C. Honing
Services: Petroleum exploration - producing - manufacturing and marketing oil company.

Indal Technologies Inc.
3570 Hawkestone Road
Mississauga, ON, L5C 2V8, Canada
☎ 416-275-5300 ☐ 06-961482
President: G.R. Rutledge
Vice President/Business Development: R.E. Marcille
Director - Aircraft Marine Systems: L.T. Zbitnew
Area Manager - Aircraft Marine Systems: G. Gray
Services: Manufacturer & designer of electro/mechanical/hydraulic systems. World's leading supplier of helicopter support systems. (Telescopic hangars, hangar doors, recovery assist/traverse systems, flight decks)

Indianapolis Heliport Corporation
51 S. New Jersey Street
Indianapolis, IN 46032
☎ 317-262-3000 ♦ 317-262-3015
President: James M. Brown
Vice President: Victor J. Bandini
Vice President: Albert C. Michaels
Services: Full service helicopter fixed base operation at downtown heliport. Fuel, heavy maintenance, storage, rental cars, restaurant/lounge, and hotel. All major credit cards accepted.

Industrial Tube Corporation
5251 Argosy Avenue
Huntington Beach, CA 92649
☎ 714-891-2365
President: Robert M. Ansalone
Marketing/Sales: R.B. Johnson
Production Manager: Oliver D. Murray
Services: Manufacturer of non-metallic hoses, air ducting, flexible connectors, bellows, special shapes and fiberglass composite ducting.

Instrument Specialties Co., Inc.
1111 Stanley Drive
Box 565
Euless, TX 76040
☎ 817-267-2651 ☐ 9108905711
President: Donald R. Bitts
Vice President: Lawrence Langkamp
Sales: Paul Brewner
Services: Manufacturer of engine instrumentation.

Insured Aircraft Title Service, Inc.
P.O. Box 19527
Oklahoma City, OK 73144
☎ 405-681-6663 ☐ 747192
President: Matthew Kelly
Vice President: Mary Miller
Vice President, Data Processing: Larry Smith
Services: Aircraft title insurance, escrow and title services. Aircraft lists and labels, statistics, aviation microfiche library.

Inter Assessoria Aeronautica Ltda.
Av. Churchill 94-6 Andar
Rio de Janeiro, 20020, Brazil
☎ 021-220-3113 ☐ 2121529
Managing Director: Ary Granja
Technical Director: Cloanto L. Nogueira
Insurance Director: Mario P. Faria
Services: Aviation consultancy for flight safety and accident prevention, maintenance evaluations, risk assessment, and aviation insurance.

Interavia Publishing Group
86, Av. Louis Casai
1216 Cointrin
Geneva, Switzerland
☎ 22-98-05-05 ☐ 22122
Editorial Director: Pierre Condom
Editor-in-Chief: Mark Lambert
Manager, External Relations: Viveca C. Ott
Exhibition Liasion (USA): Monika Cornell
Services: Publishing in aerospace and defense: Interavia Aerospace Review, International Defense Review, Space Markets, ABC Aerospace Directory

International Aerospace Technologies, Inc.
7738 Governors Drive, West
Huntsville, AL 35806
☎ 205-837-0611 ☐ 594441
President: Juergen K. Baumeister
Marketing/Sales: Johanna M. Baumeister
Manager - Spare Part Acquisition: Thorsten Baumeister
Business Manager: Linda Reese
Services: Market research, planning, strategies, sales presentations, government contract support, technical studies-research, technical documentation and spare part acquisition.

International Aviation Publishers, Inc. (IAP)
P.O. Box 56
1000 College View Drive
Riverton, WY 82501-0056
☎ 307-856-1582
President: Jerry L. Williams
Vice President/Editor: M. Dale Hurst
Publisher's Rep.: James E. Williams
Services: Publish monthly aviation maintenance magazine, "International Aviation Mechanics Journal"; publish various aviation maintenance training manuals. (Free catalogs available.)

International Data Systems, Inc.
1777 W. Camelback Road - #J109
Phoenix, AZ 85015
☎ 602-264-3531 ☐ 668571
President/Chairman of the Board: Robert L. Stewart
Vice President, Marketing: James A. Vales
Software Sales: Leslie Stewart
Aviation Software Consultant: Faith M. Arena
Services: Aviation management computer system including: aircraft/rotable component status, work orders, inventory, purchasing, flight log and financials.

Inventory Locator Service Inc.
5820 Premier Avenue
P.O. Box 18767
Memphis, TN 38181-0767
☎ 901-794-4784 ☐ 882179
President: Fred W. Meyer
National Sales Manager: Robert Drake
Office Manager: Pamela Pugh
Services: Provides on-line access to a data base of aircraft and aircraft parts availability. Also manufacture cross-reference and national stock number data base.

Isolair
P.O. Box 128
Gresham, OR 97030
☎ 503-661-5747
President: Robert Mosmeier
Administration: June Stepehens
Services: Manufacturing of aerial application equipment: spray systems, fertilizer buckets, etc.

Jaeger Aviation Corporation
2615 W. Casino Road, Suite 5B
Everett, WA 98204
☎ 206-355-7112 ☐ 329425
General Manager: Priscilla F. Moore
Services: Sales and product support for Jaeger manufactured equipment.

Jet Service Enterprises, Inc.
P.O. Box 1759
Bethany, OK 73008
☎ 407-787-1545 ☐ 910-850-6871
President: Wyndel Blakemore
Vice President: DeWayne Nitzel
Director of Operations: Keith Canfield
Shop Manager: Jack Mills
Services: An FAA approved service station providing repair and overhaul of accessories and aircraft components.

Jet Turbine Service, Inc.
5929 California Parkway
Fort Worth, TX 76119
☎ 817-536-0012 ☐ 735257
President: Peter LoBello
Vice President: Joe Penn
Director of Sales: Al Weser
Services: Buy and sell airframe and component parts.

Johnson & Higgins
95 Wall Street
New York, NY 10005
☎ 212-701-7580 ☐ 420027
Senior Vice President: A. Kent Robinson
Vice President: Charles Labie
Vice President: Ronald Wilson
Vice President: Thomas Victor
Services: Aviation insurance brokers.

KAMATICS Corporation
1330 Blue Hills Avenue
P.O. Box 3
Bloomfield, CT 06002
☎ 203-243-9704 ☐ 643201
President: A. Whitfield
Vice President: Jack Reed
Product Sales Manager: Paul DeCrisantis
Services: Self-lubricating bridges, mechanical drive shaft couplings and composite components.

Kawasaki Heavy Industries, Ltd.
Aircraft Group
World Trade Center Building
4-1 Hamamatsu-Cho 2-Chome
Minato-Ku, Tokyo, 105, Japan
☎ 03-435-2971 ☐ 2424371
President: Kenko Hasegawa
Senior Manager, Aircraft Sales:
Keishiro Tanaka
General Manager, Aircraft Group:
Masahiko Iwata
General Manager, Aircraft Sales:
Setsuo Futatsugi
Services: Manufacturer of aircraft, aerospace equipment, jet engines, ships, rolling stock, industrial plant, heavy machinery and motorcycles.

Keeton & Rich, Inc.
1420 W. Mockingbird Lane, #210
Dallas, TX 75247
☎ 214-634-2359
President: Wayne M. Keeton
Creative Director: Rudy D. Rich
V.P. of Creative Services:
Leonard M. Nohr
Account Executive: David E. Dickerson
Services: Keeton & Rich is a full service advertising agency that specializes in the aviation, aerospace and defence industries.

Kell-Strom Tool Co., Inc.
214 Church Street
Wethersfield, CT 06109
☎ 203-529-6851 ☐ 994426
President: Francis P. Kelly
Executive Vice President:
Thomas J. Kelly
Services: License approved service tools: Pratt & Whitney Canada Inc., Bendix engine products, Bendix Energy Controls Division. Also, manufacture ultrasonic cleaning equipment.

King Radio Corporation
400 N. Rogers Road
Olathe, KS 66062-1866
☎ 913-782-0400 ☐ 42299
President/Chief Executive Officer:
Robert T. Cox
V.P. Marketing/Sales:
R. Craig Christie
V.P. Public Relations:
B. L. Glover, Jr.
Director, Gen. Aviation Sales:
Dan K. Walker
Advertising Manager: Kevin P. O'Hara
Services: Design, manufacture, distribute the most complete line of aircraft electronics, from simple transceivers to sophisticated EFIS systems.

Kinzie Industries, Inc.
P.O. Box 847
Alva, OK 73717
☎ 405-327-1565 ☐ 272551
President: Wayne E. Kinzie
Sales: Jim Robinson
Public Relations: Beverly Kinzie
Development: Paul Kinzie
Services: Parts, service and sales for Hughes Helicopters.

H. Koch & Sons Division
Wickes Manufacturing Company
5410 E. La Palma Avenue
Anaheim, CA 92807-2099
☎ 714-779-7000 ☐ 655 424
President: William D. Raftery
Director of Marketing:
Larry A. Backus
Services: Life support equipment, flight crew hardware/fasteners, emergency egress lighting systems, vacuum packaging, specialty cases & program management services.

LEEAIR, Inc.
P.O. Box 1295
Orem, UT 84057
☎ 801-374-2064 ☐ 882-702
President: Robert E. Lee
Assistant, Sales: Sondra Liston
Services: Aircraft and helicopter sales, finance, appraisals and inspections.

Lear Chemical Research Corporation
1285 Britannia Road, East
Mississauga, ON, L4W 1C7, Canada
☎ 416-673-6192
President: Lynn W. McCleery
Administrator: Lise J. Pearson
Services: Manufacturer of anti-corrosion products.

Lear Siegler, Inc.
International Division
P.O. Box 10377
Stamford, CT 06904-2377
☎ 203-351-8500 ☐ 4750060 ♦ 203-351-8505
Vice President/General Manager:
Phil Caddoo
Director of Operations: John Downey
Marketing Services: Elizabeth Walker
Services: Authorized distributor for Marathon, SAFT, General Electric, Gill Aircraft Batteries, Christie, Hobart Ground Power Equipment & JET supplies.

Lester Industries, Inc.
950 Isom Road, Suite 100
San Antonio, TX 78216
☎ 512-344-8591 ☐ 767459
President: Les J. Paulick
Vice President, Marketing:
Jim Paulick
Services: Distributor of aircraft and helicopter parts. Ground support equipment, sales and service.

Lord Corporation
Aerospace Products Division
P.O. Box 10039
1635 W. 12th Street
Erie, PA 16514-0039
☎ 814-456-8511 ☐ 914458
President: A. James Freeman
General Manager: Robert C. Ditrich
Manager/Aerospace Marketing:
Edward J. Conway
Manager/Marketing Services:
Robert E. Alexander
Services: Manufacturers of elastometric products for the helicopter industry, specializing in products and technology related to the reduction and control of shock, vibration, noise and accomodate motion.

Looking for information on the civil helicopter industry? Helicopter Association International has it. Just give us a call, and it's in the mail to you. Here's a partial list of publications:

- *The Fly Neighborly Guide*
- *Your Career in Helicopter Operations*
- *The 1987 Helicopter Annual, Rotorgram, or Rotor News*
- *The Heliport Development Guide*
- *Safety Manual*
- *Visibility Unlimited*
- *Maintenance, Malfunction/Information Summary*
- *Preliminary Accident Reports & Technical Reports*
- *Community Rotorcraft Transportation Benefits and Opportunities*
- *NASA/HAI Advanced Rotorcraft Technology and Tilt Rotor Workshops*
- *Amicus Brief: Coombs* (a legal brief analyzing the FAR 91.9 and 91.79, careless and reckless operation of a helicopter and minimum altitutde)
- *Amicus Brief: Hahn* (a legal brief prepared for a Pennsylvania appellate court analyzing the constitutionality of a township zoning ordinance that prohibits all helicopter activity in the township)
- *The Helicopter in the Urban/Suburban Environment*

Contact HAI for a complete publications price list. Communications Assistant, HAI, 1619 Duke Street, Alexandria, VA 22314-3406. (703) 683-4646.

INSURE YOUR FUTURE WITH HAI

HAI listens to its members' problems and responds with workable solutions. Insurance is an industry-wide problem. HAI is developing a program to meet specific insurance needs.

Last year, HAI received specific survey responses from 500 helicopter companies representing operators of all sizes, all over the country. Their concerns?

Helicopter and heliport liability and helicopter hull and workers compensation ranked high on the list. HAI is using that information to set up a cost-effective insurance program.

HAI works for the helicopter industry. HAI works for its members. Solving insurance problems is just one of the many innovative HAI programs. Join us. Call Helicopter Association International at: (703) 683-4646.

Lucas Aerospace Ltd.
Brueton House, New Road
Solihull
West Midlands, B91 3TX, England
☎ 021-704-5171 ☐ 335334
Managing Director: Alan K. Watkins
Sales & Marketing Director:
Roger G. Haggett
Marketing Services Manager:
Angus MacLeod
Services: Design, development and manufacture of major electrical, electronic, hydraulic and pneumatic systems and equipment for all types of helicopters.

Lucas Industries Inc.
Lucas Aerospace
5215 North O'Connor
Irving, TX 75039
☎ 214-869-0247 ☐ 732561
V.P. of North American Marketing:
George L. Schulstad
Services: Marketing Headquarters. Aerospace systems and components for North America.

Lucas Aerospace
P.O. Box 867
Tustin, CA 92681-0867
☎ 714-832-6555 ☐ 714556852S
Aerospace Marketing: R.S. Villareal
Services: Marketing office.

M & N Plastics, Inc.
P.O. Box 454
Springtown, TX 76082
☎ 817-523-7245 ☐ 798516
Vice Pres./Gen.Mgr.:
Sammy B. Summers
Sales/Marketing: Mark Summers
Services: Manufacturer of helicopter replacement windows.

Machida America
40 Ramland Road South
Orangeburg, NY 10962
☎ 914-365-0600 ☐ 646955
President: Katsumi Oneda
V.P., Marketing & Sales: Ron Pell
Marketing Manager: Carole Gibbard
Services: Machida sells and services a complete line of fiberoptic borescopes and photo and video accessories for maintenance inspections.

Marathon Battery Company
P.O. Box 8255
Waco, TX 76714
☎ 817-776-0650 ☐ 9108945205
President/Chief Executive Officer:
Richard W. Cowan
Vice President, Marketing:
Leon J. Andrus
Vice President, Public Relations:
Roland Gray
Services: Manufacturer of vented nickel/cadmium aircraft batteries, inverters, chargers and temperature monitoring systems.

Marathon Flite-Tronics Company
2525 N. Naomi Street
Burbank, CA 91504
☎ 818-841-3210 ☐ 691487
Executive Vice President:
Wade J. Wnuk
Services: Manufacturer of FAA TSO'D AC static inverters & DC converters.

Marathon Oil Company
U.S. Steel Corporation
Aviation Division
Findlay, OH 45840
☎ 419-422-2121 ☐ 242446
President: W.E. Swales
Manager/Aviation Division:
J.W. Maxie
Manager/Flight Operations:
E.B. Radkey
Pilot/Helicopter Coordinator:
H.R. Snoke
Services: Aviation Division provides corporate personnel transport, and advisory service for units utilizing contract fixed wing and helicopter services. (Lessor of helicopters).

Maroc-Aviation
37, Boulevard De Montmorency
Paris, 75016, France
☎ 551-524-4521 ☐ 25797M
President: A.J. Spite
Vice President, Marketing:
G.P. Marche
Services: Maintenance and overhaul equipment and blades for helicopters. Services to operators.

Marsh & McLennan, Inc.
1221 Avenue of the Americas
New York, NY 10020
☎ 212-997-2000 ☐ 12474
Mg Dir./Chairman Aviation & Aerospace:
Raymond C. Brooks
Senior Vice President, Montreal Office:
David Taylor
Services: Insurance Brokers.

Ed Marshall Insurance, Ltd.
P.O. Box 610
Salem, VA 24153-0610
☎ 703-389-9385 ☐ 829473
President: Thomas Cook
Services: Aviation insurance agents.

The Marvel Manufacturing Co.
204 Passaic Avenue
Fairfield, NJ 07006
☎ 201-227-6090
President: L.M. Byron
Chief Engineer: R.E. Riddle
Marketing/Sales: J.R. Fuller
Services: Design & manufacture of precision horizontal suspension type static balance indicating equipment & application to helicopter rotors, aircraft propellers and other rotating parts.

Masco Service Corporation
1200 N. Kimball Avenue
Southlake, TX 76092
☎ 817-481-8205 ☐ 735171
President: William C. Massey
Vice President: Ronald B. Massey
Services: Repair, overhaul, exchange, and sales of helicopter instruments.

Mata Helicopters Jerusalem
Israel Aircraft Industries Ltd.
P.O. Box 27-160
Jerusalem, 91271, Israel
☎ (02)852293 ☐ 26213
President: Michael Zahavi
Vice President, Marketing:
Martin Kiczales
Deputy General Manager: Samuel Arbel
Director, Washington Office:
Marvin Klemov
Services: Overhaul, maintenance and repair of helicopters and components including electrical systems.

MBB - Helicopter and Military Aircraft Group
P.O. Box 801160
8000 Munich, 80, West Germany
☎ 089-6000-0 ☐ 5287-0
Senior Vice President: K. Pfleiderer
Vice President: V.V. Tein
Director: H. Huber
Director: S. Attlfellner
Services: Helicopter manufacturer.

MBB Helicopter Corporation
900 Airport Road
Box 2349
West Chester, PA 19380
☎ 215-431-4150 ☐ 175102
Executive Director: C.W. Moore
President: David O. Smith
Senior Vice-President Marketing:
A. Aastad
Vice President, Operations:
T.M. Lytle
Director of Technical Sales:
Louis Bartolotta, Jr.
Services: Manufacturer and support of light twin turbine powered helicopters in the U.S. and Latin America.

McAllister Engineering Enterprises
9739 S. 208th Street
Kent, WA 98031
☎ 206-852-0264 ☐ 294855UR
President: John McAllister
Secretary-Treasurer:
Joyce M. McAllister
Services: Engineering and manufacture helicopter auxilary systems: weighing, longline, external lift, heater, forest fire suppressant, computer, shock absorber, and static stoppers.

McDonnell Douglas Helicopter Company
5000 E. McDowell Road
Bldg. 510/A290
Mesa, AZ 85205
☎ 602-891-2477 ☐ 3711268 ✦ 602-891-5599
President: William Brown
Vice President/Marketing:
V.J. Varner
Vice President/Administration:
D.J. Delaney
Director of Public Affairs:
Robert W. Mack
Chief Engineer of Acoustics:
Robert J. King
Services: Manufacturer of helicopters.

Measurement Systems International
12622 Interurban Avenue, South
Seattle, WA 98168
☎ 206-433-0199 ☐ 328005
President: David C. English
Marketing: John R. Swartz
Advertising Manager: Terry L. Dazey
Services: Manufacturer of MSI-150 external cargo hook load monitoring systems. Instrument panel digital readout with optional printer/recorder.

Meridian Heliflight, Inc.
9705 Penn Road
Prince George, BC, V2N 2K8, Canada
☎ 604-561-1010 ☐ 04777188
General Manager: Bruce Ellwyn
Chief Inspector:
W.G. (Scotty) Farquhar
Parts Manager: Harvey Clark
Services: Complete service, repair, overhaul, and parts support for all commercial/military helicopter airframes, dynamic components, engines and their related systems.

Micro-Surface Finishing Products, Inc.
P.O. Box 818
Wilton, IA 52778
☎ 319-732-3240 ☐ 910525581
President: Herbert A. Wilson
Services: Manufacturer of abrasives—FAA acrylic repair facilities.

Midland Ross Corporation
Grimes Division
550 Route 55
P.O. Box 247
Urbana, OH 43078
☎ 513-652-1451 ☐ 205459
General Manager: John Paxton
Director of Marketing: R.M. Smith
Director of Engineering:
Thomas Quinn
Manager, Engineering and Marketing:
John Hartzler
Services: Manufacturers of interior/exterior aircraft lighting, NVG compatable IR, filtered & electroluminescent lighting, master caution systems and windshield wipers.

Miller Industrial Tools, Inc.
7,11 Hayvenhurst Avenue
Van Nuys, CA 91406
☎ 800-423-2385 ☐ 696245 ✦ 818-785-4768
President: Leon I. Miller
Vice President/Secretary:
Rosalind L. Miller
National Manager, Sales: Ken Perlis
Services: Tools for manufacturing and maintenance of aircraft, helicopters and spacecraft. Special tools manufactured to customer specifications.

Mira Slovak Aviation
P.O. Box 822
Santa Paula, CA 93060
☎ 805-525-2191 ☐ 510000-4007
President: Mira Slovak
Field Representative: Arthur Rink
Services: Sales & distribution.

Mitsui & Co. (USA) Inc.
Suite 1212
455 Las Colinas Boulevard
Irving, TX 75039
☎ 214-556-1224 ☐ 791852
General Manager: S. Kumano
Assistant General Manager: Y. Ishii
Services: Export of helicopters and spare parts to Japan.

Nash Helicopter Associates Ltd.
York House, Clarendon Avenue
Leamington Spa
Warks, CV32 5PP, England
☎ 0926-32252 ☐ 312559 ✦ 0926-883557
Managing Director: Martin Nash
Services: Sale, lease and purchase of all types of used helicopters.

National Airmotive
P.O. Box 6069
Oakland, CA 94603-0069
☎ 415-635-1500 ☐ 335346
President: A.E. Motyig
Vice President, Marketing:
R.G. Foster
Manager, Allison 250 Sales:
Dennis J. Faris
Services: Franchised distributor for Allison Model 250 series turboshaft and turboprop engines. Engine & spare parts sales, complete overhaul and repair capability and exchange program.

Negretti Aviation, Inc.
400 Amherst Street
Nashua, NH 03063
☎ 603-881-7045 ☐ 955027
Marketing Manager: Bob Brown
Director Sales/Marketing:
Dennis Greengrass
Services: Engine equipment, avionics, sensors.

Nordam/Lori
510 S. Lansing Street
Tulsa, OK 74120
☎ 918-560-5654 ☐ 492577
President: Ray H. Siegfried, II
Vice President, Marketing:
Charles B. Ryan
Manager Helicopter Marketing:
Don C. Miller, Jr.
Services: Nordam - manufacture and remanufacture of all honeycomb parts. Lori - Manufacture and overhaul/repair of oil coolers.

Northern Airborne Technology Ltd
1697 Powick Road
Kelowna, BC, V1X 4L1, Canada
☎ 604-765-2252 ☐ 048-5203 ✦ 604-762-3574
President: Walter Shawlee
Vice President & Contoller:
Mark Phillips
Services: Manufacturer of high tech audio management systems and helicopter voice advisory information systems (VADIS).

Northern Airborne Technology Ltd
1661 Hillsview Avenue
Victoria, BC, V8N 2N4, Canada
☎ 604-477-4314
Marketing Manager: Brian Conrad

Services: Manufacturer of safety voice advisory information systems.

Norton Performance Plastics Composites Operations
535 N. Diamond Street
Ravenna, OH 44266
☎ 216-296-9948 ☐ 4338012
Business Manager - Composites Group: Mark A. Dandurand
Business Manager - Aero Products: Ron Zimmerman
Sales Manager: Thomas N. Gibson
Sales Engineer: Alan Burky
Services: Norton Performance Plastics specializes in design, manufacture and repair of radomes, and fabrication of aircraft composite structures.

Nozaki and Company Ltd. Aircraft Department
16-19 Ginza 7-Chrome, Chuoku
Tokyo, 104-91, Japan
☎ 03-542-9234 ☐ 22579
Deputy General Manager: Kenichi Umeda
General Manager: Hiroshi Kohzu
Services: Distributor.

O'Beirne, Nobert & Associates
311 Churchill Boulevard
Suite 200
Greenfield Park, PQ, J4V 2N1, Canada
☎ 514-671-1291 ☐ 05-25158
President: L.E. O'Beirne
Vice President: Gilles Nobert
Services: Aviation insurance adjusters and surveyors.

The Official Helicopter Blue Book
5225 W. Old Orchard Road
Suite 40
Skokie, IL 60077-1027
☎ 312-965-5755 ☐ 720495
G.M./Chief Appraiser: Barry D. Desfor
Circulation/Advertising Mgr.: Sharon Desfor
Services: Publishers of the "Official Helicopter Blue Book"; Helicopter appraisals, residual value reports, personal inspections and expert witness testimony.

Offshore Navigation, Inc.
P.O. Box 23504
New Orleans, LA 70185
☎ 504-733-6790 ☐ RCA200455
President/CEO: George Roussel
Vice President, Marketing: A. William Marchal
Manager, Aviation Products: Kenneth B. Foret
Services: IFR Loran-C navigation products and digital data link/flight following equipment.

Oil Industry Services A.S.
P.O. Box 46
N-4620, Vagsbygd, Norway
☎ 042-86-100 ☐ 21062
Managing Director: B. Lislegard
Vice President, Marketing: M. Braithwaite
Services: Engineering, fabrication and hook-up for offshore oil/gas operators. Safedeck helidecks. Glare-free helilights.

Olympic Fastening Systems, Inc.
11445 Dolan Avenue
Downey, CA 90241
☎ 213-861-7251 ☐ 703624
General Manager: James K. Leeg
General Sales Manager: Robert Ferry
Customer Service Supervisor: James K. Lawrence
Services: Manufacture aerospace fasteners and tooling systems.

Olympus Corporation Industrial Fiberoptics Dept.
4 Nevada Drive
Lake Success, NY 11042-1179
☎ 516-488-3880 ☐ 960199 ♦ 516-222-0878
General Manager: Frank G. Becher
Services: Flexible and rigid fiberoptic borescopes, light sources and photographic accessories.

Orlando Blade Technologies Inc.
Building 125 Sanford Airport
Sanford, FL 32771
☎ 305-321-5068 ☐ 564400
President: Ted W. Tomo
Vice-President: Fred P. Clark
Secretary/Treasurer: Bradley G. Clark
Services: Rotor blade repair and overhaul.

P.E.D. - Pooleys
45450 Industrial Place, Unit 4
Fremont, CA 94538
☎ 415-490-8695
President: James W. Osterman
Vice President, Marketing: Bill Osterman
Services: Portable fueling systems. Fuel handling and storage systems of any size. Individual fuel quality control systems.

PacAero
P.O. Box 5226
2810-20 N. Lima Street
Burbank, CA 91504-3226
☎ 818-841-7800 ☐ 677489 ♦ 818-841-7878
President: Charles R. Lovin
Vice President: Tom Hodges
Sales Representative: Gregg Backus
Sales Representative: Pat Ramsey
Services: Sales and service — electrical accessories — complete units and parts. Factory authorized distributor. Export facilities.

Pacer Systems
900 Technology Drive
Northwest Industrial Park
Billerica, MA 01821
☎ 617-667-8800
President/Chief Executive Officer: J.C. Rennie
Vice-President/Chief Financial Officer: R. Koczera
Senior V.P./Chief Operating Officer: S. Goldblum
Senior V.P./Corporate Director: D. Johnsen
Services: Engineering service providing advanced system, design, development, and support.
Manufacturer of flight omni-directional air data systems and flight simulators-part task trainers.

Pacific Airmotive Corp.
2940 North Hollywood Way
Burbank, CA 91505
☎ 213-842-5171 ☐ 677695
President: Joseph Bales
General Manager: Bruce Wettstein
Manager - T-5 Engine: Jerry Carmody
Customer Liaison: Chuck Foster
Services: P&WC turbine engines: overhaul and repair services. Spare parts and engine accessory support.

Parker Hannifin Corporation Aircraft Wheel & Brake Division
1160 Center Road
Avon, OH 44011
☎ 216-937-6211 ☐ 21252?
Consultant: William C. Seidel
Aftermarket Sales Manager: John J. Bakos
Aftermarket Accounts Manager: Roger F. Dickson
Services: Manufacturers of heating & airconditioning and hydraulic systems and components.

Parker Hannifin Corporation Airborne Division
711 Taylor Street
Elyria, OH 44036
☎ 216-525-4676 ☐ 245414
Aftermarket Accounts Manager: Sydney F. Beames
Services: Manufacturer of cartridge-type and submerged fuel pumps.

Parker Hannifin Corporation Gas Turbine Fuel Systems Div.
17325 Euclid Avenue
Cleveland, OH 44112
☎ 216-531-3000 ☐ 980656
Aftermarket Sales Manager: Donald Vala
Services: Manufacture and overhaul of gas turbine fuel nozzles and manifolds.

Patterson Enterprises Inc.
7049 Valjean Avenue
Van Nuys, CA 91406
☎ 818-781-1421
President: Thomas A. Patterson
Vice President, Marketing: Michael T. Patterson
Vice President, Public Relations: James R. White
Operations Manager: Diane L. Collins
Services: Helicopter accesories for movie productions such as props etc. (camera mounts).

Pauli & Griffin Co.
907 Cotting Lane
Vacaville, CA 95688
☎ 707-447-7000 ☐ 176528
President: Robert Pauli
V.P., Marketing/Sales: Robert Dowgin

V.P., Public Relations: Sandra Rush
Senior Helicopter Representative: Charles Bull
Services: Manufacturers of plastic reclaimable abrasive machine, (PRAM) utilizing plastic media in the dry stripping of aircraft and associated parts.

Pedley Nets
P.O. Box 1
Glen Ellen, CA 95442
☎ 707-996-6629
President: Philip Pedley
Vice President: Douglas Pedley
Secretary/Treasurer: Dixie Pedley
Services: PEDLEY NETS designs, engineers, manufactures, and distributes nets of all types for aviation - cargo, tie-down, barrier, safety, and Heli-pad.

Penny & Giles Transducers Ltd.
Airfield Road
Christchurch
Dorset, BH23 3TH, England
☎ 0-202-476621 ☐ 41566
Managing Director: J.M. Dixon
Director of Marketing: G.R. Witt
Vice President, Manufacturing:
V.P. Moores
Services: Design, development & manufacture of avionic, sensors and associated systems, analogue/digital air data systems & pilot-static equipment.

Perkins Aerospace Products
5724 Commerce
Fort Worth, TX 76106
☎ 817-625-4106 ☐ 75-8401
President/CEO: James A. Perkins
Vice President/General Manager:
H.E. Perkins
Vice President/Director of Manufacturing:
Dennis Henkell
Vice President/Director of Engineering:
Bob Hart
Services: Manufacturers of helicopter windshields, window bubbles, canopies, and special design items, including composite materials.

PLM Transportation Equipment Corporation
45 N.E. Loop 410, Suite 840
San Antonio, TX 78216
☎ 512-340-5756 ☐ 765555
Chairman: Mark C. Hungerford
President: Allen V. Hirsch
Vice President Transportation:
David E. Chandler
Director, Marketing:
Mark J. Anderson
Services: Equipment lessor.

Pratt & Whitney Canada Inc.
P.O. Box 10
Longueuil, PQ, J4K 4X9, Canada
☎ 514-677-9411 ☐ 05267509
Chairman/CEO: L.D. Caplan
V.P. Public Relations: P. Henry
V.P. Marketing Admin./Support:
John N. Clark
V.P. Marketing/Sales:
R.H. McLachlan
Services: Designs, develops and manufacturers gas turbine engines for general aviation aircraft. Worldwide support for PT6, PT6T, PW100 and PW200.

Precise Flight, Inc.
63120 Powell Butte Road
Bend, OR 97701
☎ 503-382-8684
President/CEO: Michael A. McDaniel
V.P., Marketing/Sales:
James O. Anderson
V.P., Public Relations:
Janett E. Alvarez
Services: Aircraft anti-collision visual contact light system. (Pulselite)

Precision Forgings, Inc.
600 St. Louis Avenue
Valley Park, MO 63088
☎ 314-225-5222 ☐ 9107601428
Chairman: Barry R. Todd
President: Louis E. Sell
Vice President, Finance:
Joseph T. O'Connor
Design Engineer: Steven Sell
Services: Aluminum forgings.

Professional Helicopter Services Ltd.
209 Champlain Street
Timmins, ON, P4N 7L5, Canada
☎ 705-267-6585 ☐ 067-81627
President: Barry G. LeDuc
Services: Maintenance, management and consulting.

Professional Pilot Magazine
West Building, Suite 264
Washington National Airport
Washington, DC 20001
☎ 703-684-8270
Publisher: Murray Smith
Editor: C.V. Glines
Services: Publishing.

Publishers for Conventions, Inc.
1205 Main Street
Pittsburgh, PA 15215
☎ 412-781-0412
President: B.J. Gessler
Services: The NATIONAL CONVENTIONEER, a free catalog of products and services relating to the helicopter industry.

The Purdy Corporation
586 Hilliard Street
P.O. Box 1898
Manchester, CT 06040-1574
☎ 203-649-0000 ☐ 710-427-4190
President: John M. Purdy, Jr.
Executive Vice President:
George J. Purdy
Vice President/Sales:
William E. Sullivan
Vice President/Finance:
Burton E. Swanson
Services: Manufacturing gearboxes, spindles, swashplates, hubs, cams, bulkheads, gears (spiral & bevel) splining bonding and plating.

Ramapo Helicopters, Inc.
Smith Road
Spring Valley, NY 10977
☎ 914-352-8600 ☐ 131528
President: Richard Eimert
V.P., Marketing/Sales:
James V. Mitchell
Services: FAA, BHT, AHC repair station for maintenance, storage and major airframe repair.

Regal Aviation & Marine Insurance
P.O. Box 25615
Portland, OR 97225
☎ 503-222-2225 ☐ 62868900
President: Bill Clark
Vice President: R.D. (Dick) Wissmiller
Services: Specialty aviation insurance agency and insurance consultation.

Richardson Management Associates
2060 Sherbrooke Street West
Suite 102
Montreal, PQ, H3H 1G5, Canada
☎ 514-935-2593
President: Gisele Richardson
Marketing/Sales: Clarissa Reuben
Services: Training in human relations, team effectiveness, communications and motivation for safety and excellence.

Riverside Air Service
6741 Flight Road
Riverside, CA 92504
☎ 714-689-1160
President: Joe Pagan
V.P., Marketing/Sales: Bill Ferguson
V.P., Public Relations: Sharon Pagan
Director of Maintenance: Bill Estes
Services: Complete F.B.O. computer program accounting package. Also, an Aerospatiale service center.

Ro-Wing Aviation, Inc.
275 E. Pleasant Valley Road
Hangar 2
Camarillo, CA 93010
☎ 805-484-0556
President: Gary D. Foster
Chief Financial Officer:
Roger M. Gagnon
Secretary: Maureen F. Foster
Services: Hughes 500 service center/FAA certified repair station.

Robinson Helicopter Company
24747 Crenshaw Boulevard
Torrance, CA 90505
☎ 213-539-0508 ☐ 182554
President: Frank D. Robinson
Vice President: D. Edward Broman
Vice President/Marketing:
Barbara Krauss
Services: Manufacturer of two-place piston-powered R22 helicopter.

Rogerson Hiller Corporation
2140 W. 18th Street
Port Angeles, WA 98362
☎ 206-452-6891 ☐ 15-2488 ◆ 206-457-5426
President: Gerald J. Tobias
V.P. Sales & Marketing:
Victor Milner, Jr.

Services: Manufactures, sells, supports, worldwide UH12E "HAULER" agriculture helicopter, RH1100M "HORNET" light attack helicopter TOW and SCOUT configuration.

Rollins Burdick Hunter
National Aviation Division
10 South Riverside Plaza
Chicago, IL 60606
☎ 312-454-1400
President: Donald A. Wilson
Senior Vice President:
J. Howard Payne
Vice President: Robert L. Manthey
Services: Multi-national insurance broker. Risk Management consultant.

Rollins Burdick Hunter
P.O. Box 9210
Wichita, KS 67277
☎ 800-835-2677 ☐ 417407
Vice President: G. Garnett Tate
Services: Multi-national insurance broker.

Rolls-Royce Limited
Leavesden
Watford, WD2 7BZ, England
☎ 0923-674000 ☐ 25206
Director: Gordon F. Page
Head of Product Support:
D.M. Masters
Marketing Manager: P.W. Thompson
Director Product Support RR Inc.:
P.A.C. Oldfield
Services: Design, development and manufacturer of turboshaft engines between 800 shp and 2500 shp. Repair, overhauls and comprehensive product support.

Rotair Industries, Inc.
P.O. Box 4008
Bridgeport, CT 06607
☎ 203-576-6545 ☐ 964-227
President: H.F. Harrington, Jr.
General Manager: Ramiro Rocuant
Manager, Commercial Marketing:
Thomas W. Stokes
Services: Manufacturer of spare parts.

Rotor & Wing International
PJS Publications, Inc.
P.O. Box 1790, News Plaza
Peoria, IL 61656
☎ 309-682-6626 ☐ 469661
Publisher: Jerry Constantino
Editor: Don Toler
Assistant Advertising Director:
Julia Stone
Directories Editor: Kathleen S. Kocks
Services: Monthly trade magazine for the helicopter industry, includes annual Buyer's Guide and Defense Directory as the 13th and 14th issues.

Rotor Blades, Inc.
P.O. Box 589
Stockton, CA 95201
☎ 209-466-0725 ☐ 910765516?
President: Philip A. Johnston
Controller: Dyanne L. Vargas
Services: Repair and/or overhaul of helicopter rotor blades.

Rotor-Flite, Inc.
8501 Telephone Road
Houston, TX 77061
☎ 713-641-0159
President: Robert "Doug" Idema
Secretary/Treasurer: Chuck Emmett
Office Manager: Julie K. Idema
Services: Aerospatiale service station A-Star, Twin Star (CRS 264-4). Also, provide general maintenance/inspection.

Russellstoll Division
Midland Ross Corporation
550 W. Mount Pleasant Avenue
Livingston, NJ 07039
☎ 201-992-8400 ☐ 13-8405
Product Manager: Michael Mayer
National Account Manager:
Peter J. Grice
Manager of Marketing Communications:
Laurie Zelman Slack
Services: Manufacturer of heliport lighting.

S.F.I.M.
B.P. 74
91301 Massy, France
☎ 6-920-8890 ☐ 692 164 ♦ 33-69-20-28-13
President: J.L. Larpent
Director of Marketing:
J.C. Parmentier
V.P. Public Relations: Mrs. Prein
Services: Automatic flight control systems - gyroscopes

SAFT America, Inc.
711 Industrial Boulevard
P.O. Box 1886
Valdosta, GA 31603-1886
☎ 912-247-2331 ☐ 547620
President: Edward J. Mulvey
Vice President/General Manager:
Edward L. Nargi
Director, Corporate Advertising:
Marsha Dukes
National Sales Manager:
Charles E. Hopper
Services: Manufacture and market aviation batteries. Product is available through authorized dealers.

Schweizer Aircraft Corp.
P.O. Box 147
Elmira, NY 14902
☎ 607-739-3821 ☐ 932459
President: Leslie E. Schweizer
Vice President: W. Stuart Schweizer
Vice President Marketing:
Paul H. Schweizer
Helicopter Marketing Director:
Larry A. Brooks
Services: Manufacturer of the agricultural aircraft, the Ag-Cat. 300C helicopter and subcontract work for the aerospace industry.

Schwem Technology
5505 Vincent Road
Pleasant Hill, CA 94523
☎ 415-935-1226
President: Janet Alvarez
Marketing Manager: Katherine Metrulas
Services: Schwem Technology manufactures a stabilizing zoom lens compatible with most video cameras.

Scientific-Atlanta, Inc.
8885 Balboa Avenue
P.O. Box 23575
San Diego, CA 92123-0575
☎ 619-268-7210 ☐ 9103221755
Aviation Products Manager:
Keith L. Jones
Government Products Manager:
Thomas Winship
Services: Manufacturer of vibration test equipment, rotor blade track and balance equipment, and jet engine test cell instruments.

SEI Industries Ltd.
406-5940 No. 6 Road
Richmond, BC, V6V 1Z1, Canada
☎ 604-270-6455 ☐ 04555779
President: Don Arney
General Manager: Mark J. McCooey
Vice-President Marketing:
Ken Nielson
Sales Manager: Gilles Levesque
Services: Manufacture & sales of Bambi Bucket water bucket, Fuel-Easy flyable fuel container, Terra Tank ground storage bladders, Jet-Net marine rescue apparatus.

SEM AG (Sophisticated Equipment Marketing)
Kirchmattstrasse 44
Steinhausen - Zug, Switzerland
☎ 42-41-77-55 ☐ 862-645
Managing Director: K.H. Graetzer
Engineer: Felix Wolgelernter
Administrative Manageress:
Ellen Graetzer-Jung
Services: Vibration Management Systems - Helitune.

Seagil Software Company
P.O. Box 720595
Atlanta, GA 30358
☎ 404-843-8998
President: Christopher Calia
Vice President: Gilbert L. Gregg, Jr.
Secretary/Treasurer:
Natalie K. Gregg
Services: BART Software for A/C management, scheduling, reports, airport directory, inventory, budgeting, maintenance, monitoring, charter quote, flight analysis communications and recordkeeping.

Se. ·co Instruments, Inc.
11505 Vanowen Street
North Hollywood, CA 91605
☎ 818-982-1400 ☐ 9104992155
Marketing/Sales: S. Guy Moore
Services: Turbine engine temperature, speed, torque sensors & electronic control system design & manufacturer utilized in airborne & ground support applications. Also, electronic engine trend monitors/recorders.

Sensor Systems, Inc.
8929 Fullbright Avenue
Chatsworth, CA 91311
☎ 818-341-9059 ☐ 691585 ♦ 818-341-9059
Executive Vice President: Si Robin
Services: Manufacturer of aircraft antennas.

Membership

Sermatech International Inc.
155 S. Limerick Road
Limerick, PA 19468
☎ 215-948-5100 ☐ 84-6335
General Sales Manager: Bob Krowka
Field Engineer/STS West/Airfoil Mgmt.:
George Ottiniano
Sales Representative/STS Southwest:
Mark Williams
Sales Representative: Ken Auen
Services: Specialized turbine engine component services; coatings- SermeTel corrosion protection, Gator-Gard Wear/Erosion Protection, R.M.C. Engine Cleaner, Airfoil Mgmt./RD-305.

SFENA
B.P. 59
Velizy-Villacoublay, 78141, France
☎ 146302385 ☐ 260046F
President/Chief Executive Officer:
Alain Guigue
General Manager: Michel Hucher
Director of Marketing: Roger Larrieu
Technical Director: Jean Monfort
Services: Flight guidance systems, flight instruments.

SFENA Corporation
2617 Aviation Parkway
Grand Prairie, TX 75051
☎ 214-988-8000 ☐ 9108664655
V.P., Business Development:
Stephen W. Williams
Customer Service Manager: Tom Healy
Public Relations: Lois Sonnier
Services: Manufacturer of helicopter flight control systems, IFR kits and gyro instruments. Helicopter avionics/electronics systems; integration, engineering and installation.

Shannon Financial Corporation
3451-B Vincent Drive
Pleasant Hill, CA 94523
☎ 415-932-5809
President: Michael T. McCune
Sales/Marketing Manager:
James Phillips
Services: Used helicopter sales specializing in leasing and financing services for new and used aircraft and refurbishing contractor.

The Shephard Press Ltd.
111 High Street
Burnham
Bucks, SL1 7JZ, England
☎ 06286-4311 ☐ 846575 AIRGO
Managing Director:
Alexander D. Shephard
Editor/Defence Helicopter World:
Paul Beaver
Editor/Helicopter World: Ian Parker
Services: Publishers of Helicopter World, Defence Helicopter World, Commuter World and Space, with annual buyers guide directories.

Sikorsky Aircraft
N. Main Street
Stratford, CT 06602
☎ 203-386-4000 ☐ 7104531330
President/Chief Executive Officer:
Robert Zincone
V.P., Commercial Marketing:
Mackie D. Mott
V.P., Worldwide Customer Svc.:
Kenneth C. Mard
Director of Communications:
Robert Stangarone
Manager of Public Relations:
Martin Moore
Services: Design, development, test and manufacture of helicopters and equipment.

Simmonds Precision
Product Support Division
5250 N.W. 33rd Avenue
Fort Lauderdale, FL 33309
☎ 305-497-0100 ☐ 807378
Vice President/General Manager:
Duncun E. Bossle
Director, Customer Service:
Dominic J. Scardino
Marketing Manager: William H. Thomas
Services: Repair and sales of Simmonds Products, flight and engine instruction, test equipment for helicopter industry.

Simplex Manufacturing Co.
13340 N.E. Whitaker Way
Portland, OR 97230
☎ 503-257-3511 ☐ 360936
President: Daniel Conti
Vice President: James D. Galligan
Sales Manager: Ken Glanz
Services: Manufacturer and sales representative for aerial application equipment for helicopters for spraying, seeding, oil pollution control and fire fighting.

Sky Controls, Inc.
7518 Clybourn Avenue
Sun Valley, CA 91352
☎ 213-877-0341 ☐ 9104982728
President: Jack Y. Holiday
Vice President, Marketing:
Mark S. Holiday
General Manager: Doug Holiday
Secretary: Mercy E. Holiday
Services: Sale of new & overhauled aircraft accessory items. Limited sale of complete aircraft.

Sky Sign
P.O. Box 490068
Miami, FL 33149-0068
☎ 305-759-7446 ☐ 807533
President: Betty Foster
Vice President Marketing:
C. Tom Foster
V.P. Public Relations: J. Scott
Services: Electronic aerial & ground message systems (Goodyear Blimp type) day and night usable.

SL Auburn Inc.
89 York Street
Auburn, NY 13021
☎ 315-252-9501 ☐ 710-896-0138 ♦ 315-252-8172
President: Charles E. Riffle
Aviation Sales Manager:
Edward J. Dyman
Engineering Manager:
Stephen F. Smith
Services: Manufacturer of aviation spark plugs and igniters.

Building a strong foundation takes time and energy

We have the time . . .

We need your energy

Forty years ago John Slattery began collecting helicopter information and models. Today this collection is the most extensive in the world.

You can see it at the HAI headquarters in Alexandria, Virginia. Known as the Helicopter Foundation International's Archives, this collection includes more than 1,500 helicopter models, 20,000 international documents, books, and memorabilia.

But each year there's more helicopter material to be preserved.

In 1983, HAI created the Helicopter Foundation International to acquire, maintain, and promote interest in the archives. It costs thousands each year to operate the center. That money comes solely from donations.

Find out how you can contribute to this important collection. Contact HAI founder Joseph G. Seward, Chairman of the Founders Committee, c/o HAI, 1619 Duke St., Alexandria, VA 22314-3406, (703) 683-4646.

Spectrolab, Inc.
12500 Gladstone Avenue
Sylmar, CA 91342
☎ 213-365-4611 ☐ 9104961750
President/CEO: Lawrence M. Spicer
Marketing Manager: Bryan P. Roland
Product Line Manager:
Robert Chandler
Marketing Adminisitrator:
Sylvia J. Brennan
Services: Searchlights for helicopters and fixed wing aircraft. Also, infarred filters.

Stewart Smith
Stewart Wrightson Organization
125 S. Wacker Drive, Suite 2500
Chicago, IL 60606
☎ 312-236-7333 ☐ 206154
Assistant Vice President:
John R. Howard
Services: Insurance.

Smiths Industries Aerospace
& Defense Systems, Inc.
P.O. Box 275, 18 Great Valley
Malvern, PA 19355
☎ 215-296-5000 ☐ 5106685025
President & CEO:
Geoffrey S.M. Hedrick
Vice President, Marketing:
William N. Brooks
Vice President, Finance:
Ronald C. Albrecht
Marketing, Harowe Division:
Robert C. Bessette
Marketing, Clearwater Division:
C.G. Gunderson
Services: Manufacture air data computers, performance computer systems, primary flight instrumentation, fuel gauging, engine instruments and electronic clocks

Sock Line Specialists Inc.
3300 West Union Avenue
Englewood, CO 80110
☎ 303-794-6747
President: Claude L. Chapman
Vice President/Sales & Marketing:
Jack Zeiler
Vice President/Public Relations:
Paul Pennock
Secretary/Treasurer: Jim Kimsey
Services: The rental of non personnel hookups for extended loads including threading power line towers with a needle for pulling wire.

Soloy Conversions, Ltd.
450 Pat Kennedy Way, S.W.
Olympia Way, WA 98502
☎ 206-754-7000 ☐ 510-785-0241
President: Joe I. Soloy
Marketing Group Manager:
Randy Furtick
International Sales Manager:
Tim Koester
Domestic Sales Manager:
Nick Parkinson
Services: Turbine conversion packages for Bell 47 series, Hiller 12E helicopters, Cessna 206, 207>185, 210 , along with a portable heliport.

Sony Trading Corporation
10-18 Takanawa, 4-chome
Minato-Ku
Tokyo, 108, Japan
☎ 03-448-3136 ☐ 2424328
President/CEO: Tetsuro Yotsumoto
Managing Director: Matsuji Kato
Services: Aerospatiale's helicopter sales agent and distributor in Japan.

Southeastern Aviation
Underwriters, Inc.
P.O. Box 20439
Atlanta, GA 30325
☎ 404-351-8303 ☐ 542550
President/CEO: John A. Myers
Vice Chairman: William W. Brown
Senior Vice President:
Robert M. Glinane
Vice President: W. Floyd Garner
Services: Aviation physical damage and liability insurance.

Southern Air Transport, Inc.
P.O. Box 52-4093
Miami, FL 33152
☎ 305-871-5171 ☐ 51-8856 ♦ 305-871-2921
Chairman: James Bastian
President: William Langton
Vice President/Sales:
Asa C. Hemperley
Services: Aviation transport services.

Southern Marine & Aviation
Underwriters, Inc.
610 Poydras Street
New Orleans, LA 70130
☎ 504-524-4131 ☐ 58-7440
President: Doyle P. Spell
Vice President: Stephen P. Dinsdale
Services: Provide helicopter insurance for all classes of helicopters operated by U.S. corporations.

Southern Marine & Aviation
Underwriters, Inc.
7500 San Felipe
Suite 500
Houston, TX 77063
☎ 713-784-6605 ☐ 790-368
Company Representative:
R.A. McMullen

Southern Marine & Aviation Inc.
3200 Wilshire Boulvard
Los Angeles, CA 90010
☎ 213-385-8436 ☐ 67-7414
Aviation Vice President:
Eric H. Jones

Spar Aerospace Limited
825 Caledonia Road
Toronto, ON, M6B 3X8, Canada
☎ 416-781-1571 ☐ 06524240
General Manager: Gordon A. Epp
Director, Operations: Arthur Munroe
Manager Interantional Sales:
Wayne Bell
Manager International Sales:
George Naida
Services: Repair and overhaul of electrical and mechanical components and accessories for fixed and rotary wing aircraft.

Sparling Corporation
12250 Coyle Avenue
Detroit, MI 48227
☎ 313-838-4400
President/CEO: Paul E. Clements
Vice President: Dennis Callan
Marketing: Thomas J. Riss
Services: Design and construct bulk aviation fuel systems and manufacturer of aviation fueling equipment

Sperry Corporation
Aerospace & Marine Group
P.O. Box 21111
Phoenix, AZ 85036
☎ 602-869-2311 ☐ 668419
Director of Communications:
Eldon Kramer
Services: Sales & service of flight control systems and airborne weather radar.

STS Avionic Products Inc.
11600 Lilburn Park Road
St. Louis, MO 63146
☎ 314-467-0304 ☐ 9107640810 ♦ 314-567-0376
Product Manager: Brian J. Lorenz
Services: Manufacture and distribute avionic products: the AV 7600VOR, a handheld transceiver with VOR, and the Loran C110.

Standard Aero Limited
33 Allen Dyne Road
Winnipeg International Airport
Winnipeg, MB, R3H 1A1, Canada
☎ 204-775-9711 ☐ 07-57878
Executive V.P. & C.O.O.:
Doug M. Finley
Vice President, Marketing:
R.A. Carter
Vice President, Sales: L.J. O'Riley
Services: Overhaul of helicopter engines and accessories. Distribution of helicopter parts and products. Branches in U.S., Canada, and Europe.

Standard Helicopter Corp.
1828 N.E. Siskiyou
Portland, OR 97212
☎ 503-284-4667
President: Greg Nutt
Vice President: Doris Nutt
Services: Helicopter management/consultant. Parts manufacturing/accessories.

Synergetics, Inc.
13611 Heartside Place
Dallas, TX 75234
☎ 214-241-2891
President: Richard C. Serkland
Vice President: Steven S. Cone
Services: Manufacture executive boarding aids (retractable steps) and other accessories.

Systron-Donner
Safety Systems Division
935 Detroit Avenue
Concord, CA 94518
☎ 415-671-6698 ☐ 337611
General Manager: Joseph G. Wolfslau
Marketing Manager: Shay T. Pickton
Engineering Manager: Kevin A. Faughnan

Chief Applications Engineer:
Rocky R. Aicale
Services: Manufacturer of aircraft and industrial fire and overheat detection equipment.

TEDECO Division
Aeroquip Corporation
24 E. Glenolden Avenue
Glenolden, PA 19036-2198
☎ 215-583-9400 ☐ 831429
Vice President and General Manager:
Thomas Tauber
Aerospace Sales and Marketing:
Henry Belman
Sales Manager, Aerospace:
Robert F. Fenlon
Marketing Analyst: Brian Collins
Services: Manufacturer of condition monitoring products and fluid system accessories for the aerospace, industrial, military/mobile, and marine markets.

Tech Tool Plastics, Inc.
7800 Skyline Park Drive
Fort Worth, TX 76108
☎ 817-246-4694 ☐ 758635
President: John E. Wilson
Services: Helicopter window and bubble manufacturing.

Teledyne Avionics
P.O. Box 6400
Charlottesville, VA 22906
☎ 804-973-3311
President: Herbert M. Barnard
Director of Marketing/Sales:
Dale J. Thompson
Marketing Representative:
Joyce DeWitt
Marketing Representative:
Harry Pond
Services: Products manufactured: IVSI, turbine power analyzer and recorder, angle-of-attack systems.

Teledyne Battery Products
P.O. Box 431
840 W. Brockton Avenue
Redlands, CA 92374
☎ 714-793-3131 ☐ 676438
President: Lee Wenzel
Vice President, Marketing:
Lee Greisch
Manager, OEM Sales: Dick Ruff
Services: Manufacturers of the "GILL" lead acid aircraft battery line.

Teledyne Neosho
P.O. Box 648
Neosho, MO 64850
☎ 417-451-1810 ☐ 9107704963
President: Wayne D. Ortloff
Executive Vice President:
M.A. ("Dutch") Barbettini
Manager, General Aviation:
Dale Ortloff
Services: Overhauler of engines and manufacturer of aircraft precision gears.

Teledyne Systems Company
19601 Nordhoff Street
Northridge, CA 91324
☎ 818-886-2211 ☐ 910-493-1249
President: Harry Halamandaris
Vice President Business Development:
Ted Izen
Public Relations: Mike Barritt
LORAN Program Manager: Lyle Gillette
Services: Avionics.

Telex Communications, Inc.
9600 Aldrich Avenue South
Minneapolis, MN 55420
☎ 612-884-4051
Vice President, Marketing/Sales:
James S. Arrington
Sales Manager, Aviation Products:
Burt Gore
Director, Public Relations:
Peter Schwarz
Director, Marketing Communication Products:
Don Mereen
Services: Manufacturer of aviation microphones, headphones, boom-mic headsets and intercom systems.

Tennant Co.
701 N. Lilac Drive
Minneapolis, MN 55422
☎ 612-540-1200 ☐ 290451
President: Roger Hale
Vice Presdient/Marketing:
Lyle Delwiche
Trade Show Coordinator:
Philip Hernandez
Services: Manufacturer of power sweepers and power scrubbers, floor treatment materials including chemical resistant urethane.

Texaco, Inc.
Aviation Transport Division
P.O. Box 5096
Houma, LA 70361
☎ 504-876-5470
Head Pilot: R.J. Lampton

Texstar, Inc.
P.O. Box 534036
Grand Prairie, TX 75053-4036
☎ 214-647-1366 ☐ 073-2397 ♦ 214-641-2800
President/CEO: Earl I. Jones
V.P./Marketing: T.W. Weatherred
V.P./Operations: James V. Irion
V.P./Controller: E. A. Wolcott
Services: Custom plastics fabricator; manufacturer of transparencies, ducting and interior parts for aircraft.

Tiodize Co., Inc.
15701 Industry Lane
Huntington Beach, CA 92649
☎ 714-898-4377
President: Thomas R. Adams
Services: High-tech lubricants, corrosion coatings, graphite composites, teflon impregnation of hard anodize; titanium anodizing using the tiodize process AMS 2488 & coatings.

TOTAL CFP
TEP/DPS/LS
Cedex 47 - La Defense
92069 Paris, France
☎ 1-42-91-47-50 ☐ 615-700
Air Transport Operations Superintendent:
J. Baldus
Services: Oil company - Exploration - production - crude oil.

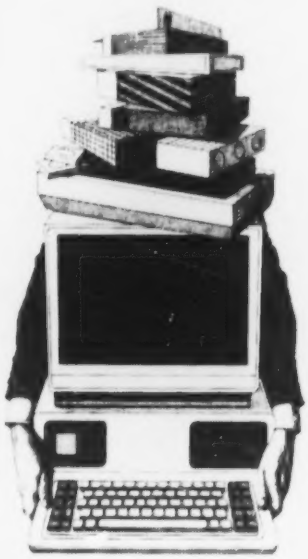
TRW Aircraft Components
Power Accessories Division
23555 Euclid Avenue
Cleveland, OH 44117
☎ 216-692-5965
Vice President/Div. Manager:
R.T. Craig
Manager, Aircraft Accessories:
R.L. Schroeder
Requirements Manager: P.D. Totedo
Senior Sales Engineer:
James B. Nolish
Senior Sales Engineer: P. Lexow
Services: Design, manufacture assembly & test of aircraft & engine fuel pumps & accessories; propulsion assemblies for underwater weapons systems.

Transaero, Inc.
80 Crossways Park Drive
Woodbury, NY 11797
☎ 516-921-7400 ☐ 967734 ♦ 516-921-7407
President: Shell B. Youngwall
Executive Vice President:
Anthony Caputo
Vice President, Sales:
David R. Mazoff
Vice President, Administration:
Charles Kane
Director of Marketing:
Valdis Skilins
Services: Aircraft spares, components, systems, ground support power units and equipment, and survival and personnel equipment.

Transamerica Airlines
P.O. Box 2504
Airport Station
Oakland, CA 94614
☎ 415-577-6200 ☐ 336320
Director, Cargo Development:
Robert A. Colhoun
Director, Cargo: Mike Glesener
Manager Cargo: Allen Cronn
Manager Cargo: Paul Morley
Services: Air Cargo Charter/Airline.

Transupport, Inc.
265 Soundview Avenue
Shelton, CT 06484
☎ 203-735-0333
President/CEO: Harold Foote
Services: T-53/T-55 engine spares. Also, T53/T-55 special tools.

Tronair, Inc.
S. 1740 Eber Road
Holland, OH 43528
☎ 419-866-6301 ☐ 8104402839
General Manager: Wayne A. Geraci
Marketing/Sales: Ron W. Dossat
Engineering: Paul Borton
Controller: Nino Carrollo
Services: Manufacture and distribute ground power equipment, hydraulic service equipment, hydraulic jacks, engine stands, towbars, workstands and other ground support equipment.



HAI's Helicopter Hotline

is ready to give you the information you need to survive in today's competitive business environment. All you need is just a computer/modem call away . . .

- •Employment Opportunities
- •Government Contracts
- •Critical Airworthiness Directives
- •Manufacturer's Alerts
- •Malfunction or Defect Reports
- •FAA Proposed Regulations
- •Safety Information (Including Preliminary Accident Reports)

HAI has entered the high tech world of information telecommunications. The Helicopter Hotline is running standard communications software on an IBM PC-AT compatible machine with two modem lines, 703-683-6488, 89 or telephone Ed DiCampli, Information Manager, for details on how you can hook-up to the Helicopter Hotline, (703) 683-4646. Keep up-to-date on the latest developments in the industry. It's the only way to stay one step ahead of the competition.

Tug-A-Lug, Inc.
41614 102nd Street East
Lancaster, CA 93534
☎ 805-944-1910
President: Donald A. Harman
Services: Manufacture helicopter and small aircraft ground handling equipment.

Turbine Casing
2800 Avenue E East
Arlington, TX 76011
☎ 817-860-9022 ☐ 758672
Sales Manager: Bob Landon
Services: An authorized repair facility for Allison 250 turbine components.

Turbo West, Inc.
Jefferson County Airport
Broomfield, CO 80020
☎ 303-469-6671 ☐ 454564
President: Chris Finnoff
Vice President: Bruce Chiddister
Vice President, Service:
Douglas Stimpson
Helicopter Division Manager:
Michael Cochran
Services: Factory approved service center for Bell 206 series.

Turbomeca
Bordes
64320 Bizanos, France
☎ 59-328437 ☐ 560928
Chairman: Joseph Szydlowski
Vice President: Gerard Pertica
Assistant General Manager:
Marcel Tavernier
Commercial Manager: Pierre Vauterin
Services: Design, manufacture, sales and product support of turboshaft engines for helicopters.

U.S. Aviation Corporation
24 East 38th Street
New York, NY 10016
☎ 212-213-8860 ☐ 4972309
Chairman: Frederick V. Martin, Jr.
President/CEO: Robert P. Bohn
Services: Financing, leasing, investments, marketing, remarketing, acquisition services, asset management, consulting for corporate and commercial aircraft, rotary wing and fixed wing.

Union Carbide Coatings Service
1500 Polco Street
Indianapolis, IN 46224
☎ 317-299-1935 ☐ 2-7413
Manager, Advertising & Sales Promotion:
David O. Armstrong
Sales Manager/North Haven:
R.R. Chevalier
Field Sales Representative/Dallas:
D.N. Browning
Services: UCAR metal and ceramic coatings for wear resistance on OEM and repair components of helicopter airframes and engines.

Universal Navigation Corporation
3545 W. Lomita Boulevard
Unit B
Torrance, CA 90505
☎ 213-325-4081 ☐ 705806
President: Hubert L. Naimer
Executive Vice President:
Charles H. Edmondson
Vice-President, Engineering:
William Tymczyszyn
Manager, Technical Support:
John Tymczyszyn
Services: Avionics manufacturing.

University of Southern California/ISSM Extension Prgms.
3500 S. Figueroa St. - Ste. 202
Los Angeles, CA 90007
☎ 213-743-6523 ☐ 181101
Associate Executive Director:
Richard K. Brown
Director of Programs: Maureen Kaneko
Aviation Program Specialist:
Lauretta Gin
Registrar: Deborah McLiam
Services: Aviation safety courses for the international community in several multi disciplinary areas: Technology, Human factors, Safety Program Management, Health, Communications & Investigation.

USAIG (United States Aircraft Insurance Group)
One Seaport Plaza
199 Water Street
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Paris, 16, FRANCE
☎1-723-7252
President: Mr. Lionel Poilane

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☎604-273-1500
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2021, AUSTRALIA
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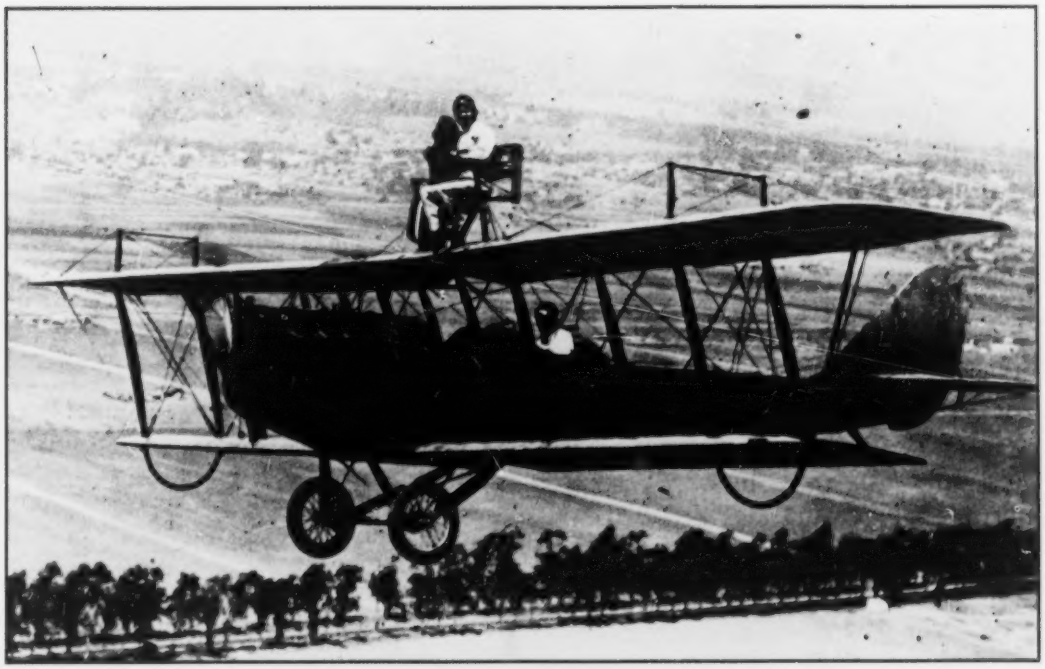

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- *Amicus Brief: Coombs* (a legal brief analyzing the FAR 91.9 and 91.79, careless and reckless operation of a helicopter and minimum altitutde)
- *Amicus Brief: Hahn* (a legal brief prepared for a Pennsylvania appellate court analyzing the constitutionality of a township zoning ordinance that prohibits all helicopter activity in the township)
- *The Helicopter in the Urban/Suburban Environment*

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EDITORIAL

HELICOPTER OPERATORS... READY TODAY!

Overview of Hard Times Masquerading As A Market

By L. Kim Smith

"Let the good times roll." Unknown

Belomancy: Predicting the future by the use of arrows.

"The aerospace industry will enjoy one of its best years ever in 1986," said Karl Harr, President of Aerospace Industries Association, in a December 1986 good news/bad news annual forecast in the nation's capital.

After the good news, Harr got around to the "Oh, by the way . . ." portion of the picture: the subject of civil aircraft sales. "These gains (meaning space) offset the sharp drop in unit shipments of general aviation aircraft and helicopters, which fell 20 percent and 31 percent respectively," Harr said.

Some may feel comforted to know the helicopter industry is not alone. Harr attributes the drop in helicopter sales to the high cost of product liability insurance, the abundance of serviceable, lower-cost used aircraft and the depressed world oil market, not necessarily in that order.

According to AIA, 301 civil helicopters were shipped in 1986 to the tune of $273 million. That's 75 fewer helicopter shipments than in 1985. The manufacturer's association predicts 360 helicopters will be shipped in 1987 for $332 million. The U.S. managed to export helicopters worth $260 million in 1986, $50 million more than in 1985. Helicopter imports grew only $4 million, from $45 million in 1985 to $49 million in 1986.

Noting the "exact science" of industry predictions, Forecast Associates, Inc., issued its helicopter projections through 1995. From 1986 to 1995 the Connecticut-based research firm predicts 16,549 units worth $55 billion will be manufactured. The military will take 9,412 of those helicopters, or 57 percent, and some 7,047, or 43 percent, are slated for the commercial sector. For those interested in other crystal ball exercises see the accompanying charts.

Since 1981, when the helicopter industry fell from economic grace, projections have been endlessly issued that "next year" the market will pick up. But that belief cannot last forever. As Charles W. Johnson, Vice President of ERA Helicopters, Inc. put it:

"I gave up projections in 1985 because ever since 1981 we've projected that next year will be the year that everything turns around. After four years of that I said to hell with it. We've got to tighten our belts and march forward, hopefully with things outside the oil industry."

Johnson flatly added: "1986 was the worst year we've had."

Helicopter Unit Forecast 1987 - 1996

Market Sector	Weight Class				Total
	Light	Inter.	Medium	Heavy	
U.S. Government	—	190	2,215	570	2,975
Foreign Military	2,205	1,950	1,720	255	6,130
Worldwide Civil	3,100	1,390	220	5	4,715
Total	5,305	3,530	4,155	830	13,820

Source: National Research Council, Transportation Research Board

Offshore Oil Market

According to Frank McGuire, founding editor of *Helicopter News*, the natural resources market accounts for 70 to 75 percent of all domestic civil helicopter sales. With this industry "sugar daddy" away on an extended vacation, one favorite pasttime is predicting when the offshore oil market will return. If you are going to hold your breath, take a really deep one first.

In a January 1987 forecasting exercise, the Transportation Research Board helicopter group, comprised of "all" the helicopter manufacturers, offered their perspective on the helicopter world. As corporate executives are wont to do, they bulleted their thoughts on the offshore oil market:

- Essentially moribund now
- Oil price recovery in 1987
- Drilling resumes in 1989
- Sales resume late 1991 to mid-1993 (preceded by bat wings and eye of newt)

The indicators contributing to the "moribund" descriptor abound.

- Atlantic Richfield slashed its exploration budget from $2.9 billion in 1985 to $1.3 billion in 1986.
- Amoco Corp. cut its production/exploration staff by 15% in 1986.
- One industry source said only about 34 percent of all available drill rigs are working.
- Department of Interior's offshore lease sales draw only a fraction of the bidders they used to.

One DOI official explained in the January 7, 1986, issue of *Rotor & Wing International*, "Concerning some sales, the Secretary felt there is a need to reevaluate industry interest, to see if the department wants to go with certain sales or not. It's demoralizing to have a sale and no one shows up."

Petroleum Helicopters, Inc., reported in April 1986 that it was cutting its work force from 2700 to 2000 and eventually would get it down to 1600. Idle helicopters in the offshore arena are commonplace. (See the accompanying chart.)

Will the oil industry ever come back? ERA Executive Vice President Johnson believes that 1987 may not necessarily bring greater revenues but the downward trend in the offshore market will be reversed.

"Obviously in the oil business you live or die by the price of the barrel. It doesn't have to be $30 a barrel and if it stays where it is now at $19—and stays stable for six or seven months—that will certainly help our business in the non-frontier areas."

Sikorsky's Director of Strategic Business Planning, Dave Lawrence believes two or three years of stable prices will help greatly; then it will take two or three more years to get rid of the surplus aircraft. "As I see it, it takes a lot less time for us to produce aircraft than for the oil companies to decide to drill."

Industry observers are quick to point out that when the oil industry finally makes a comeback it will never resemble the "good old days," circa late 1970s. Nowadays you can hear war stories about how they used to send a helicopter out to the rig with only ice cream for the crew or perhaps with just one passenger.

"The oil companies have learned a lot and they're extremely cost conscious now," McGuire said. "They've increased their passenger load factors up to 65 to 70 percent and they don't mind buying used equipment. The days of the good-ol'-boy network of giving your buddy the helicopter work are gone, as well as the ice cream run."

Emergency Medical Services

Casting about for a new market, the manufacturers and commercial operators discovered emergency medical services (EMS) operations. According to *Hospital Aviation* magazine, the EMS market has grown at an average rate of 20 percent each year for the past 12 years. With about 130 current EMS operations flying 150 helicopters, some manufacturers project 200 by the end of the 1980s.

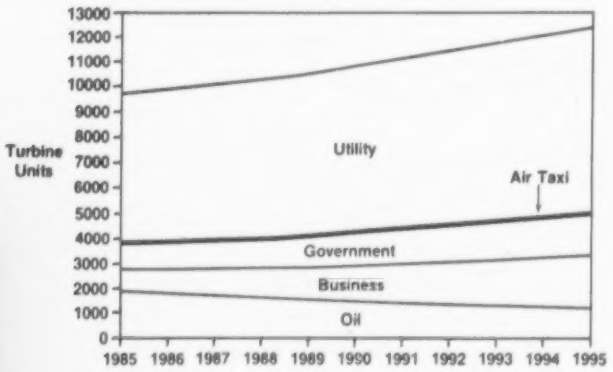
Some offshore operators, watching their helicopters collect water spots, have actively begun marketing their services to hospitals. PHI has an EMS contract at Cleveland's Metropolitan General Hospital with three Sikorsky S-76s. Other EMS operator contracts include Rocky Mountain, Omniflight, Pumpkin Air, Air Methods, Keystone, U.S. Jet Aviation, Evergreen Helicopters, EMS Helicopters, Kenn-Air Metro Aviation, and others.

One operator confided that it was "Great to get EMS work because it's so morally satisfying after some of the other work we've done." Washington Hospital Center's MEDSTAR shock-trauma unit in the District of Columbia told *Helicopter News* it expects to fly more than 1,000 EMS flights by the end of the year.

Yet the EMS market does have a rip in its silver lining. Depending on who you ask, the EMS accident rate is two, three, five or six times that of commercial operators. Einhorn has gone on record that "EMS helicopters have the worst accident rate in modern aviation history." EMS pilots point to fatigue as a major factor, with a helicopter pilot workload eight times that of their fixed wing counterparts. Couple fatigue with bad weather and night flying and you have the ingredients for a problem.

ERA's Johnson, who is actively pursuing EMS contracts, believes "as hospitals become more aware of the problems inherent in EMS operations they will move toward twin engine, IFR-equipped aircraft with two pilots. Plus, they'll increase the number of pilots on the job and you'll see a reduction in roadside pickup operations."

Civil Market Outlook
Fleet Inventory By Mission



Source: Sikorsky Aircraft **Note: Fleet grows at an average of 2.5% per year**

HAI Chairman Wanda L. Rogers, Executive Vice President of Rogers Helicopters, Inc., is concerned about who is running the EMS operations. "These programs need to be run by the helicopter people and not by the flight nurses and doctors. From our own experience we know the kind of pressure that can be placed on a pilot. They don't understand when you're going IFR into the mountains that there's nothing out there to help you."

Rogers also points out that these accidents have a chilling effect on the insurance folks. "Our insurance agent told us that the insurance community is considering either not insuring EMS operators at all or making them VFR, day only." According to the November 1986 *Rotor & Wing*, "EMS insurance liability claims are now running about six times the premium levels coming in."

Inudstry concern over this issue prompted the Helicopter Association International (HAI) to develop an EMS Safety Seminar, February 25th at its Annual Meeting in Dallas. Participants include the FAA, the American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS), Airborne Law Enforcement Association (ALEA), National Flight Nurses Association (NFNA) and NEMSPA. The all-day session will focus on a statistical review of available EMS data, judgement and decision making in EMS operations, operational considerations, and human factors/psychological profiles.

Public Service

The April-June 1986 issue of *Helicopter World* reported that approximately 9 percent of the world's helicopter activity is devoted to law enforcement. Within ten years, police use of helicopters is projected to capture 21 percent of the market.

Helicopter World also cited an unidentified report that civil government helicopters will form 50 percent of the western world's civil helicopter fleet by the year 2000.

A Bell Helicopter Textron representative claimed that 26 percent of the company's domestic helicopters went to civil government agencies. McDonnell Douglas Helicopter Co. says it has more than 100 MD 500 series helicopters working for law enforcement agencies.

"There are more than 1,000 police helicopters operating in the U.S.," Frank McGuire said, "and that doesn't include the Drug Enforcement Agency numbers because they're confidential. I see the police market as a growth area for the industry but it's a good news/bad news market. The good news is that the police departments are increasingly able to show the decision makers that helicopters pay off. Even as small a jurisdiction as the District of Columbia has been able to convince the powers-that-be that the city needs a UH-1.

"The bad news is that—because of the political ramifications of cost—many police agencies are operating piston-engine helicopters. The police would benefit greatly if there were a reliable turbine-engine helicopter with piston-range cost. The widely-advertised new development called Windstar promises to fit these requirements, but of course that remains to be seen."

Another aspect to this market is the ongoing allegation by commercial operators that the public service sector is taking contract work away from them.

"Considering the recessionary overtones of our economy," one commercial operator said, "that government work is really important to us. It offers the stability we need to avoid Chapter 11."

This public vs. private sector battle is a long-running, contentious issue that defies easy solutions.

A Transportation Research Board helicopter group offered the following perspective after its 1985 meeting: "The growing availability of used or underused military equipment, operated by government agencies at charter rates that do not reflect actual operating costs, has tended to depress private sector willingness to provide such services . . . While public sector participation in public service helicopter missions might be valid in cases where private sector services aren't feasible (and might even stimulate business in such cases), continued public sector participation at present levels is likely to discourage private interest needed for long term growth."

At Congressman Norman Mineta's (D-CA) urging, the General Accounting Office (GAO) conducted a study on public aircraft. The report, which was released December 19, 1986, is entitled: *Aviation Safety: Federal Regulation of Public Aircraft*. "The study does not say that public aircraft are unsafe," Mineta explained, "but no system exists to assure the public that aircraft maintenance and pilot training are adequate . . . It appears that we have a hole in our regulatory framework."

Corporate

The January 1987 Transportation Research Board helicopter forecast essentially made the following points about the corporate helicopter market: There is no clear way to make a forecast in this market because there is uncertainty in the major drivers such as

Oil Fleet Surplus

Crew Transport Capacity

Region	Total Seats	Idle Capacity (%)
U.S.	2200	45%
North Sea	3500	30%
Rest of World	3800	25%
Total	9500	30%

Source: National Research Council, Transportation Research Board, as of July, 1986.

taxes and allowables and "great optimism requires serious investment." Surprise, surprise.

Yet, Sikorsky's Lawrence says the "growth in the use of business and private helicopters has been phenomenal. In North America alone, from 100 of them in 1960, nearly 2000 are operated today . . . from 1981 to 1985, while worldwide sales of business turboprops decreased by nearly 80 percent, sales of the S-76 to corporate customers remained essentially unchanged."

Lawrence attributes increased use of corporate helicopters to reduced scheduled airline service to small communities; increased dispersion of office and factory locations; improved comfort, speed and reliability of helicopters and increasing airport congestion. Underlying these factors is the pointed reference to saving the corporate executive's time.

In a 1986 survey conducted by The Wall Street Journal of 1,064 companies using aircraft, 17 percent flew helicopters. Median company sales of these corporate users was in the $318 million range and on the average they have 2 airplanes and two helicopters. More than 80 percent of the helicopters were purchased, with 19 percent leased. The typical company flies 32 helicopter trips per month with three passengers per trip averaging 67 miles. Of the 34 percent of the companies planning to acquire aircraft in the next two years, 25 percent plan on getting a helicopter.

Unfortunately for the manufacturer marketing departments, those potential buyers weren't identified in the report.

"In order to sell a corporate helicopter," one airframe builder's marketeer said, "you have to appeal to the CEO, the chief pilot and the user group. Part of the selling involves properly educating the user on how to use the helicopter to its best advantage. To do that you need to assess the company executive's time . . . But I don't know that if you were to put a heliport in every city whether you would sell any more helicopters."

This ambivalence on the part of manufacturers toward heliport development is at war with the industry's public stance: that the lack of heliports is impeding industry's growth.

"Manufacturers have abandoned the heliport issue," McGuire explained. "Can you name the people who are actively working this issue at the four major U.S. helicopter companies? No? Probably because there isn't anyone. Henry Ford was once asked why he was building so many cars when there weren't any decent roads. Ford retorted that he'd build the automobiles and let someone else worry about the roads.

"But this approach won't get heliports built as it got roads built. Most people have a car but most people don't have a helicopter. Unless manufacturers and the helicopter community take the heliport issue seriously, they won't be able to convince decision makers that helicopter transportation is feasible into city centers. But then, that may not be where most helicopter users want to go anyway."

Commuters

And while some corporate marketeers may feel that heliports aren't an essential ingredient for their sales, helicopter airlines are continually sinking from sight because they couldn't establish strategically placed city center heliports.

Of course, there's also that matter of operating cost. Helicopter airlines are almost wholly subsidized or just a memory. Lawrence points out one of the frequently overlooked facts of life: that executives and the public have different perceptions of what an executive is worth.

"On a stand-alone basis," said Lawrence, "not subsidized by airlines or governments—the economic realities of helicopters and even of advanced rotorcraft just don't align with the traveling public's perception of its value of time. In the absence of strong public demand, the world's short haul airlines are not likely to gamble with the immense investment up front."

Lawrence argues that today's corporate helicopters can effectively reduce operations at crowded airports if city center heliports and their associated airways are developed.

Other manufacturing representatives, particularly those hailing from Fort Worth, Texas, feel that helicopter airlines will only become a viable market when the tilt rotor enters the scene. "It's quiet enough and with that kind of technology we'll really open this market up."

Helicopter noise has been continually cited as an impediment to the civil market's growth. But some manufacturer's believe that noise is only masking the public's real opposition—fear of the aircraft crashing. Whatever the reality, noise is a factor, and some industry observers believe the manufacturers have also abandoned this issue. Considering that the military is almost entirely funding the current research and development, it's not surprising that noise reduction isn't a priority.

As John Hamre, aide to the Senate Armed Services Committee put it: "LHX is going to be the only helicopter program around for the next 50 years."

"We're probably never going to see another Bell 222 or Sikorsky S-76 civil development program," McGuire said. "Commercial operators have a long wait before they see a civil version of the LHX so they better get used to what they're flying now because that's what they're going to have for the next 15 years."

A manufacturing representative candidly added: "It's quite obvious that there aren't any helicopter manufacturers now that are in the mood to invest seriously in significant product improvements for civil helicopters. Unless those improvements are underwritten by the U.S. military, or subscribed to by a big enough market, no one will make the investment because the market is flat and there's no way to get your money back."

But there is this partnership between the manufacturers and the operators that dates way back and rests on such things as support and spares and replacement aircraft. Most of the operators we talked to, although unhappy with 8 to 12 percent price increases with 3 to 4 percent inflation, feel that the manufacturers are still listening.

Frank Jensen, HAI's president, believes the operator's ability to leave non-or diminished markets and search out new ones has literally kept the operators economically afloat. "Diversification of helicopter applications is the key to survival and ultimately to success . . . When we come out of this especially challenging time, which we will, we are going to be more capable, tougher and stronger than ever."

HAI: Working Industry's Problems:

By L. Kim Smith

Interspersed with predictions of the civil helicopter industry's downfall have been the untimely death knells for its trade association, HAI. Yet, during these times of economic sluggishness both the industry and HAI have proven their resilience.

Since its last dues hike in 1982, HAI has managed to increase the number of its members and its membership revenues. And for those who believe this is a setup for a dues escalation: "There's no plan to increase membership dues," promises HAI President Frank L. Jensen, Jr.

The Alexandria, Virginia based association:

- Has its own headquarters building. The land is worth more than $300,000 and the building almost $800,000. Eighty percent of the purchase price was financed and within one year of occupancy the value of the building increased 40 percent;
- Has been consistently operating in the black for five years;
- Has a reserve fund of more than $50,000 and is going to bump that figure up to $70,000 in 1987;
- Has an Annual Meeting that draws more than 8,000 participants and had 3,000 public day walk-ins in 1986;
- Has an operating budget that is close to $2 million;
- Has a constituency that operates more than 3,400 helicopters;
- Has 17 fulltime staff people each with their own Leading Edge personal computer;
- Has members in 41 nations worldwide;
- Has 33 affiliate members;
- Has the world's largest helicopter archive including 1,500 helicopter models and more than 20,000 documents, rare books and memorabilia. (The model collection alone is worth more than $100,000.)
- Has survived 39 years of economic changes and dire industry predictions.

Mark Twain probably said it best. "Reports of my death have been greatly exaggerated."

How It Works

HAI has prospered through the deft direction of its volunteer Board of Directors. Current HAI Chairman Mrs. Wanda I. Rogers noted in a missive to the membership that "I contribute my time and effort with the belief that HAI is a useful forum for the entire industry—Without a focal point, and without a structured exchange of communications amongst ourselves, we can't realistically expect to survive for long, let alone grow."

HAI's Board, the association's governing body, represents the entire spectrum of the civil helicopter industry and each director serves without compensation. Directors are elected by regular members for three years and there are six commercial, two corporate/private and one public service representative. Any owner, officer or employee of a regular member is eligible for election as a Director and there aren't any geographic or national representation requirements. Two additional directors are selected as airframe and engine representatives and these officials serve for two year terms. There is also an insurance representative on the Board, selected by his peers, and special advisors are appointed to the Board as appropriate. Currently Theodore E. Dumont, Joseph Mashman and Walter B. Comeaux, Jr. are Board special advisors.

Cornering all fourteen Board members who come from different parts of the globe, every time a decision is needed isn't easy. Hence, the Executive Committee, comprised of the Chairman, Vice Chairman and Treasurer, are often called upon to make decisions when the full Board can't convene. This triumvirate provides the association with continuity and an apprenticeship for HAI's leadership. Generally, a person elected as HAI's Treasurer goes on to become the Vice Chairman and ultimately the Chairman. This gives the elected directors time to become acquainted with HAI and how it works.

While Board members donate their time, energy and money to HAI, the association's committee members also volunteer their services to the helicopter industry. At the time of this writing there were 22 active HAI committees; specifically: Acoustics, Agricultural, Commercial Operators, Corporate Operators, Economics, Emergency Medical Services, Government Contracting, Helicopter Airlines, HeliPAC, Helicopter Flight Operations and Flight Instructors, Heliport Promotion and Development, Heliport Technical Planning, Legislative Action, Manufacturers, Membership, Offshore, Public Relations, Public Service, Regulations, Safety, Statistical, and Technical.

These committees serve a widely divergent community but it's easy to spot the burning, current issues by the large number of members in certain committees. For example the Emergency Medical Services committee has a staggering 37 members, while the once-popular Helicopter Airlines committee currently has only six. Each committee has an HAI staff and board liaison to aid their productivity.

HAI's Constituency

"The aviation industry has not exactly been a bed of roses over the past several years," HAI president Frank Jensen said. "Helicopter sales remain down, operators compete for reduced business, there have been bankruptcies, RIFs, curtailments and price cuts. Yet HAI's membership has remained generally level since 1981 and the downturn in the helicopter industry. We are working together to improve industry's fortunes."

Despite the helicopter community's slowed civil progress, as of November 1986 HAI still had 1,051 members representing 41 nations worldwide. HAI has five membership categories: regular, associate, sustaining, student and affiliate. Regular members, those groups operating civil helicopters, number 391 and comprise 37.3 percent of the total membership. Of the 391 regular HAI members, 222 are commercial, 138 are corporate and 31 are public service operators. The 359 associate members make up 34.2 percent of the total membership and are companies that supply products and services to the helicopter industry.

Sustaining members, individuals interested in the helicopter industry, number 258 and comprise 24.6 percent of the total HAI membership. HAI has ten student members at 0.9 percent of the total and there are 33 affiliate members at three percent of the total HAI membership. Affiliate members are regional and national organizations whose structures and purposes are similar to those of HAI. From 1982 to 1986 HAI's affiliate membership grew an enormous 560 percent!

"The outside perception of HAI is that the organization's membership is comprised of large offshore operators," Jensen said, "but if you look at our regular members 69 percent operate 5 or fewer helicopters. The HAI leadership has made a special effort to recruit smaller operators." Yet taken together the HAI membership operates an enormous fleet of helicopters—more than 3,400 aircraft in all.

Although the association went international in late 1981, HAI's domestic membership is dominant and formidable. Of the total HAI membership, 82.4 percent are from the U.S. and 17.6 percent are international.

A "Few" Accomplishments

Reviewing HAI's 1986 activities reveals an impressive mix of interests. But that's what one might expect of an association that touts its representation of the the entire Free World helicopter industry. The following are a few of the efforts that took place.

- Worked on emergency medical service (EMS) operator excise tax exemptions and other excise tax issues.
- Contributed to efforts to pass product liability legislation, specifically Amendment 1823 to S.100, HR 4142 and S.1999.
- Worked to overturn a decision by the court system that affected helicopter landing rights (Max Coombs decision).
- Vehemently opposed HR 4430 which called for the establishment of minimum altitudes for aircraft flying over all U.S. parks.
- Met with a variety of governmental agencies plus Congressional representatives to attempt to persuade them to have the FAA regulate all civil (public, restricted category) aircraft and for the National Transportation Safety Board (NTSB) to investigate all of these aircraft accidents.
- Protested a November 1986 government solicitation that called for on- call helicopters and allowed responses from entities operating restricted category aircraft.
- Established a computerized bulletin board (the Helicopter Hotline) which provides HAI news and services, legislative actions, events and headlines, contract and employment opportunities, helicopter trade opportunities, parts searches, safety information and reports including Airworthiness Directives, maintenance information summaries, FAA regulations, preliminary accident reports and technical notes.
- Mailed out 5973 insurance questionnaires to HAI members and nonmembers to ascertain their insurance needs and worked to develop a new HAI owners and operators hull and liability insurance program.
- Developed helicopter noise assessment procedures.
- Proposed helicopter noise certification standards.
- Persuaded the FAA to cancel a restrictive notice requiring replacement of all metric gauges and instruments with English markings.
- Received a two year extension for the exemption of helicopter operators from certain portions of FAR 135.
- Helped stop Soviet overflights of oil platforms in the Pacific Northwest.
- Alerted the Department of Transportation about the dangers involved in DOT's operation of a moored weather balloon along the Gulf Coast of Louisiana and Florida. Requested that the balloon and its mooring cable be conspicuously marked, that it be lowered during low visibility weather and that its location be properly announced.
- Put together an EMS seminar, the 18th Helicopter Operators Management course, an HAI-University of Southern California Safety Management course, the 4th HAI Helicopter CFI Revalidation Course and a new Maintenance Management and Administration course.
- Tried to convince the FAA to base its helicopter accident statistics on takeoffs and landings rather than flight hours.
- Prevailed upon USAID and the State Department to use commercial operators rather than military helicopters for famine relief in the SUDAN.
- Developed a Helicopter User's Guide designed to educate the customer on how to use the helicopter safely.
- Researched an IRS problem on revenues earned by employers in foreign countries that have taxation agreements with the U.S.
- Awarded, to date, approximately 700 pilot safety awards for 5,000, 10,000 and 20,000 hours of accident and violation free helicopter operations.

Problem Free?

With all this concerted activity and a balance sheet that has black numbers at the bottom instead of red, one might think that HAI officials would be relatively complacent about the organization's future.

Hah! Fat chance.

Although the overseas warring appears to have abated since HAI's attempted international expansion, there are continual skirmishes on U.S. soil between commercial and public service operators. The rhetoric remains consistently mired in who can provide the taxpayer with helicopter services more cost effectively and efficiently. Apples-to-apples cost comparisons between the public service and commercial sector remain only a topic of conversation and never seem to translate into a real world exercise. Yet this government-private sector dialogue continues and HAI and the helicopter public sector continue to seek common ground.

The Airborne Law Enforcement Association (ALEA) figures in one of HAI's most hotly contested turf battles, yet the two organizations continue to talk together as professionals. ALEA president Ray Raffensberger recommended—and HAI appointed—Frank S. Root as chairman of HAI's Public Service Committee. There's even a little-known Memorandum of Understanding (MOU) between the two organizations. As one industry observer put it: "They may never be friendly and merge, but neither of them can discount nor abolish the other."

A New, Safe Approach

"Our new maintenance, malfunction/information report should really help reduce direct operating costs," Kenneth K. Woolnough, HAI's director of safety said. "The FAA's Service Difficulty Reporting System is so cumbersome with so many different forms that many mechanics just don't bother filling them out even though they're required to by regulation. As a result, the entire helicopter community is denied access to information which could improve safety and reduce costs."

HAI's Technical Committee, in conjunction with the Manufacturer's Committee, has developed a one-page, four-part report that replaces the myriad of forms now used for warranty service and for the FAA. One copy is slated for the manufacturer, one goes to the FAA, one comes to HAI and the other is retained by the mechanic's firm. HAI hopes to start its own databank with this information. Although mechanics file warranty claims with manufacturers, they subsequently pass along only about 10% of this information to the FAA. Ken Woolnough explained why:

"Let's say a mechanic removes a starter generator with a broken shaft, and he sends it in for warranty service. Depending on whose aircraft it is he might have up to ten different forms to fill out for the warranty claim and then another for the FAA's Service Difficulty Report. So each manufacturer has a different report form and there isn't any standard of reporting, collating or analyzing. To consolidate the maintenance personnel's workload we came up with one generic form which should increase the rate of return and ultimately provide better trend monitoring of components."

"The forms are available now," said Bob Lannerd, Chairman of HAI's Technical Committee. "We'll have a large supply at the Annual Meeting." We want to encourage operators to start using these forms and let HAI know if you have any comments. We need maintenance personnel to report all problems to the appropriate manufacturer, ask for warranty, and help resolve any problem before it becomes a safety issue or an accident. If we all work together on this, our insurance rates should go down."

HAI has also successfully adapted to the emergence of many regional organizations with grace. As HAI president Frank Jensen said in August 1982 in *Rotor & Wing International*: "There is full support among the HAI leadership for the association to cooperate fully with the regional associations . . . The HAI leadership realizes that the regionals wouldn't have started in the first place if there wasn't a real or perceived need for them . . . "

This full HAI support translates into a 560 percent growth rate in the number of HAI affiliate organizations—from five in 1982 to 33 in 1986. For the past several years HAI has also conducted a Rotorcraft Roundtable at the HAI Annual Meeting, inviting different regional groups to present their views.

"We have a lot more cooperation with other groups now," Frank Jensen explained. "We helped the MidAtlantic Helicopter Association get started and we've worked closely with the Flight Nurse's Association and the American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS). ASHBEAMS was an Associate member and paying Associate member dues and we changed their status to an affiliate member which isn't required to pay any dues."

Meanwhile, the civil industry limps along. Manufacturers cast covetous glances at the military pocketbook and despairing glances at the commercial purse. With their economic clout diminished, the commercial operators at times find it difficult to attract the manufacturer's attention. HAI, as a microcosm of this environment, is facing this same dilemma. These associate members, which comprise 34.2 percent of HAI's total membership, actually pay $100,000 more in dues than HAI's regular members. Plus, if you consider that the Annual Meeting and its exhibitors provide more than 50 percent of the association's income, the problem is put into sharper focus.

Yet, the manufacturers and helicopter industry suppliers are not likely to ignore HAI and its operator membership. The association represents more than 3400 machines and that's an avalanche of support, spare parts, and potential customers. As noted earlier, HAI was a network before the word became popular, and this is a network no manufacturer can do without.

HAI is working to improve the operator/manufacturer dialogue. In late December the association mailed out an informal survey on operating costs which will be used to provide preliminary input for user design conferences. As Jensen noted in his December 17th letter: "We look now for additional cost reduction opportunities. To that end, it is timely to conduct a systematic appraisal of operators' cost experiences and identify areas where manufacturers can reduce those costs . . . We plan to convene a conference of all operators willing to participate by providing cost information . . . "

A problem that continues to plague HAI and the entire helicopter industry is public acceptance of the machine. Steffanie Parker, HAI's General Counsel said: "The industry's problems are all interrelated. Right now one of the biggest issues that we face is societal acceptance. Helicopters must be accepted by the public as an effective and efficient means of transportation."

While HAI struggles with this pervasive problem, it needs to realize there are difficulties closer to home. After interviewing several industry representatives about the association and its

Who's Who in HAI

The HAI Headquarter's staff has evolved and changed as the character and needs of HAI's membership have changed. Five years ago, HAI had an international deputy executive director and was about to open a European office. Today Frank Jensen is HAI president, there isn't a deputy director and the HAI European office is no longer an item of discussion. The staff has been increased to include a fulltime heliport director, computer specialist, administrative/legal counsel, and an accounting manager. From 11 fulltime staff people in 1982, HAI's fulltimers have grown to 17. Many of HAI's professional staff are familiar to the helicopter community, with four to five years of HAI duty under their collective belts. And for those who consider helicopter piloting experience necessary for HAI leadership, there are four "highly qualified helicopter pilots" on the HAI staff.

To provide the membership with services, the HAI staff is organized into the following departments—Executive, Legal/Administrative, Member Services and Operations. A summary of the people responsible and their various duties is detailed below:

Frank L. Jensen, Jr.—HAI President. He reports directly to HAI's Board of Directors and is responsible for the general operation of the association with emphasis on fiscal matters, public representation and lobbying.

Matthew D. Ubben—Executive Assistant. As the title indicates, Ubben directly supports the President and the Board.

Steffanie D. Parker—Director of HAI's Legal/Administrative department. Parker is responsible for budget planning, legislative matters, and administrative affairs.

Richard J. Kerch—Manager, Administration. Kerch handles the internal administrative matters of the association.

Gwen Walker-Spriggs—Secretary, Administrative/Legal.

Henry D'Sousa—Manager, Accounting.

Ed DiCampli—Manager, Information Systems. DiCampli is HAI's resident computer expert.

John Mason—Coordinator, Mailroom services.

Christine D'Sousa—Receptionist

Daniel P. Warsley—Director, Member Services. Warsley is responsible for HAI communications, including *The Helicopter Annual, Rotorgram, Rotor News* and is in charge of HAI public relations, membership services and meeting management.

Amanda Harrison—Manager, Marketing/Meetings. She is responsible for the marketing of the Annual Meeting and the Helicopter Annual.

Kate Miller—Manager, Membership. Miller is responsible for maintaining all membership records.

Susan Reynolds—Communications Assistant. Reynolds assists Dan Warsley in all HAI communications and is responsible for HAI press relations.

Marjorie McRae—Coordinator, Meetings/Exhibits. She assists Amanda Harrison in the planning and execution of the HAI Annual Meeting.

Glenn A. Leister—Director, Heliports and Airways. He is in charge of HAI's Operations department and works on regulations and promoting the development of public and private heliports.

Kenneth K. Woolnough—Director, Safety and Technical programs. Woolnough is responsible for developing and implementing the HAI safety management and operations management education programs.

Andrea Bell—Safety Assistant.

activities, we felt it was patently obvious that no one really knew the extent of HAI's work.

The association needs to become far more effective at touting its own good works to the helicopter and overall aviation communities. In terms of outside awareness of its role, HAI could use some external lift.

If there is an irony in the HAI picture, it is that the very association which represents the most dramatic, photogenic and awe- inspiring rescue machine in the public eye, is the same association which is too often occupied rescuing its own image. Both the helicopter and the association suffer as a result. HAI cannot forever assume goodwill based on the notion that:

Everyone knows helicopters are great!

If only one thing could be changed about HAI, it would be that assumption . . . and there are signs that HAI is beginning to get the word out.

The Annual Command Performance

For (gasp!) thirty-nine years the helicopter faithful have annually migrated south and west to the HAI Annual Meeting and Industry Exposition. Despite east coast blizzards, a Challenger explosion, tense international relations, an oil slump and flattened civil markets, the helicopter industry has descended upon its host cities in numbers best described as hordes. And through the miracle of association arithmetic, attendance numbers have generally grown each year—from 8,330 in New Orleans in 1985 to 8,414 in Anaheim in 1986. HAI officials predict more than 9,000 will descend on J. R. Ewing's town in 1987.

Pare away the back-slapping and crony-ribbing aspects, and essentially you'll find a giant helicopter marketplace and information exchange at work. HAI was a network before the term became passe. HAI staffers proudly report that in Anaheim in 1986 there were two registrants for every one exhibitor. Plus, thirty percent of the registrants said they had the authority to make purchasing decisions. Some 40 countries— ranging from Argentina to Kenya and Saudi Arabia—were represented with more than 250 exhibitors on hand to display their products.

For the 39th Annual Meeting and Industry Exposition in Dallas, the battle of bigger numbers has already begun. HAI officials report more than 265 exhibitors will occupy more than 300,000 square feet of exposition space. And, helicopter folks who are intimately familiar with every inch of Disneyland and the Las Vegas casinos will have the opportunity to explore a new host town before it's back to Anaheim again.

For those interested in attending "the premiere international aviation event devoted exclusively to the helicopter and its operations," we offer the following dates and sites.

February 7-9, 1988; (surprise, surprise) Anaheim Convention Center, Anaheim, California

January 15-17, 1989; New Orleans Convention Center, New Orleans, Louisiana

February 4-6, 1990; Dallas Convention Center, Dallas, Texas

January 27-29, 1991; Anaheim Convention Center, Anaheim, California

March 1-3, 1992 (tentative); Las Vegas Convention Center, Las Vegas, Nevada

HAI Wants You to FLY NEIGHBORLY

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Reducing helicopter noise . . . and improving community relations

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2) COMPLETE A SIMPLE APPLICATION FORM.

Contact HAI's Glenn Leister for more information. (703) 683-4646.

HAI Staff

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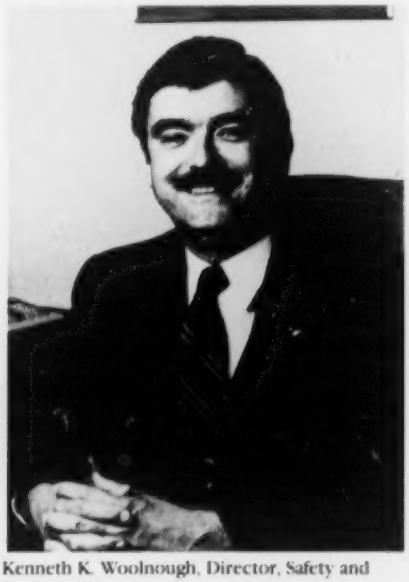

Kenneth K. Woolnough, Director, Safety and Technical Programs

Regulations: Simon Says . . .

Antinomy: Contradiction between two authorities

By L. Kim Smith

You have to expect a few problems when you're revising a helicopter standard that's thirty years old.

That's essentially what the Federal Aviation Administration (FAA) said when its Rotorcraft Regulatory Review (RRR) started back in January 1979. (Yes, Virginia this is January 1987.) The agency plans to issue a total of five new rules when the RRR is complete.

So far we've seen a final rule, effective March 2, 1983, that covered applicability of Federal Air Regulations (FAR) Parts 27 and 29; Instrument Flight Rules (IFR) certification; and icing criteria. There was considerable blood shed by manufacturers over that rulemaking process. Then on December 6, 1984 the FAA issued its final rule addressing airworthiness standards for type certification of normal and transport category aircraft.

The third notice, which covers powerplant proposals, and the fourth notice, covering airframe proposals, are still brewing in the shrouded cauldron of the FAA.

On November 7th the helicopter community was handed the FAA's fifth rule on operations and maintenance. It became effective January 6, 1987.

Unfortunately, the majority of the helicopter community's howls began about January 7th. It seems that a lot of affected operators missed their chance to comment because they never knew this NPRM had hit the street.

"This rule hit a lot of people like a bolt out of the blue," Theodore E. Dumont, president of AEROREGS International and Chairman of HAI's Regulations Committee explained. "There were a lot of people sitting around not even aware that their world was about to come to an end. The regulation covers many items including pilot qualifications, maintenance and some sections of Part 135.

"One serious impact is that the FAA increased the time requirements for pilot qualifications. So here you have people in school collecting air time so that they can get qualified and then all of a sudden that air time is substantially increased. Obviously that increases the cost. It's quite a blow if you're trying to break in as a helicopter pilot," Dumont said.

HAI officials have asked the FAA to extend the applicability of those sections for ninety days but at presstime FAA had not reached a decision.

Another area affected by Rule No. 5 is HAI's Exemption 2695E. According to Dumont, part of this exemption—which HAI has had since 1979—made it unnecessary to have two pilots fly a helicopter with more than nine passengers.

"This has been one of the prime exemptions that we've had," Dumont said. "It had some conditions tied to it but now people who are operating helicopters with more than nine passenger seats will have to have two pilots. Some operators have gone as far as taking out seats in order to comply with this. The only thing that slightly mitigates this rule is the fact that business is so slow these days . . ."

Dissemination Difficulties

Trying to get the word out to all the people affected by an FAA Notice of Proposed Rulemaking (NPRM) is an octopus that HAI has been wrestling with for years. At different points in time the association has attempted to copy the entire NPRM and mail it out to its membership but the cost has never offset the results. HAI members, busy trying to survive in the real world, have never been thrilled about attempting to answer an NPRM that appears to be written in Swahili (make that Eastern Swahili). Those active in fighting the "good" fight are a tenacious but small group.

"One of the activities that the Regulations Committee needs to deal with this year," Dumont noted, "is working with the FAA to get more timely distribution of these final rules to the people that they affect. The FAA has a tendency to depend on the *Federal Register* but there aren't a whole lot of people that subscribe to it. HAI notified its members through its publications but after this last experience it's obvious that there must be a better way. We have ammunition on this issue because with this rule even the FAA field people didn't know that the change was to be affected. They didn't have the new rule, and Jeppesen, which a lot of people count on, hadn't even come out with their revision."

Those interested can get copies of NPRMs, if the NPRM number is known, by submitting a request to the FAA, Office of Public Affairs, Att: Public Information Center, APA-430, 800 Independence Ave., SW, Washington, DC 20591 or by calling (202)267-3484.

If you'd like to be placed on the mailing list for future NPRMs, request a copy of Advisory Circular No. 11-2A, NPRM Distribution System which describes the application procedures. The entire procedure is a bit tortuous but it beats paying $340 a year for the *Federal Register*. You can get a year's subscription to the *Federal Register* by writing a check for $340 and making it payable to the Superintendent of Documents, Government Printing Office, Washington, DC 20402. If you want further information telephone the Federal Register Office, (202)523-5227.

Regulatory Skirmishes

It's not as if the FAA doesn't keep the helicopter community on its toes. HAI's Director of Heliports & Airways Glenn Leister outlined a few of the areas that the association worked on in 1986.

"We went to our members to find out their views on transport category helicopter performance and the desired location of engine controls. We proposed helicopter noise certification standards and identification markings to assist the U.S. Customs Service in its interdiction of illegal drug trafficking. Plus, we developed helicopter noise assessment procedures and got heliports included in the 'Airport Compatibility' noise standards."

If any of the above items raises the hackles on the back of your neck you might consider becoming involved in the regulatory arena. Active participants are welcomed with open arms. If, on the other hand, there weren't any visible irritants in the 1986 litany of regulatory issues, consider 1987.

The Battle Continues

One prime area of concern to operators is the establishment of minimum altitudes over the Grand Canyon. Precipitated by a June 18, 1986 collison between a helicopter and plane, the U.S. House of Representatives quickly acted on a bill that would study and determine minimum altitudes. The bill was defeated. The FAA also jumped into the fray and proposed a special regulation for the Grand Canyon only. According to Dumont, comments on this special NPRM were due in early January.

"In the NPRM the FAA said they were going to have a final rule and that the industry had until March 31 or thereabouts to comment," Dumont said. "The problem was that they were asking us to comment on a final rule that we hadn't seen. This issue could really become a problem because you go from the Grand Canyon to all national parks. Of course, municipalities could then step in and say we're going to use these standards ourselves. The only thing that could save us is the FAA getting back into the issue by deciding these folks are impeding air commerce."

Other regulatory issues HAI expects to be working on in 1987 include:

- Flight handling qualities standards for low-speed IFR approaches
- Expansion of structural fatigue substantiation practices (If this

piques your interest check out NPRM No. 86-13, issued Monday, September 22, 1986. Comments are due by March 27, 1987)
- Upgrading helicopter certification guides
- More extensive occupant restraint standards
- Qualification and reorganization of the standards for Parts Manufacturer Approval
- Airworthiness certification standards for advanced VTOL aircraft such as the tilt rotor
- Revised airframe airworthiness standards
- Revised proposals for transport category helicopter performance
- New rating structure for helicopter engines
- Turbine burst protection for transport category helicopters
- Addition of regulatory related information to the HAI Hotline
- Proposals to produce greater harmony between the FAA and the British Civil Aviation Authority airworthiness standards

After reviewing the anticipated efforts for 1987 one operator said he felt a lot better when HAI had a fulltime regulations person. "I need that kind of regulatory representation from HAI and I don't see how with their present staff and structure that they can do it all."

Frank Jensen, HAI president recognizes the need for a fulltime regulatory person in the HAI fold but he also recognizes current economics. "We're voluntarily cutting back HAI's budget this year and we're operating in an austerity mode. We would like to hire a fulltime regulatory person in the future when industry's fortunes turnaround."

HAI's Leister works on regulatory issues for the association with Dumont as backup. But doing it all may require a little help from their friends. HAI encourages its members to participate in the regulations committee to make membership views known. That's the only way to keep the FAA's room in the ivory tower on the ground floor.

Heliports: A Flat Spot In the Curve

By L. Kim Smith

"The helicopter industry is full of enthusiasts, which makes it difficult for them to see themselves as others do."

Christopher Tugendhat, Chairman of the UK Civil Aviation Authority, as reported in the October 29 issue of *HeliData.*

How goes the battle?

"In a nutshell, one could say the industry deserves a mention in the "Guinness Book of Records" for running in place for 20 years . . . It took the United States less than 10 years to develop the technology and political atmosphere to get to the moon," Kathleen Kocks, *Rotor & Wing International's* ubiquitous heliport columnist wrote in the January 7, 1986 issue.

Heliport progress has been decidedly slow, advancing two steps and at times falling back three. Yet Glenn Leister, HAI's Director of Heliports & Airways, points out that the heliport prognosis is improving. "The number of private and public heliports grew 42 percent from 1970 to 1986," Leister explained.

Reviewing the heliport data provided by the FAA's National Flight Data Center (NFDC) through the end of October 1986, there are 3,340 heliports in the United States, Puerto Rico and the Virgin Islands. (These totals do not include temporary or offshore heliports or infrequently used helicopter landing sites.) As a point of interest, Texas boasts the largest number— 374, while the Virgin Islands and South Dakota have 2 and 4 respectively.

Looking at these same NFDC statistics, almost 95 percent of all the helicopter landing areas in the U.S. are private, while five percent are public. Only 2.9 percent of all the helicopter landing areas are at airports. Corporate owner/operators control 37.8 percent of all helicopter landing areas; hospitals 26.9 percent; government 18.6 percent; individuals 10.9 percent; oil companies 3.9 percent and hotels 1.9 percent. (See the heliport statistics on p. 10).

Sideways Progress

So what are the heliport signals at this point? Mixed, bordering on scrambled. The following is a sprinkling of heliport events of 1986.

The loudly trumpeted FAA's Rotorcraft Master Plan, introduced in late 1982, moves slowly forward and in its wake are two city center heliports. Indianapolis opened in May 1985 and New Orleans operationally surfaced at the end of January 1986. Several years ago, the federal agency selected four cities—Indianapolis, Los Angeles, New York and New Orleans—as the prime hosts for FAA's prototype heliports. The FAA's long term plan envisions the establishment of at least 25 all-weather city center heliports by the year 2000. With two down and two to go, New York's Wall Street site is continually scheduled to "open within the next few months" and the Los Angeles heliport appears stuck between a rock and a railroad.

While the industry was quietly celebrating the New Orleans opening, FAA was closing down its Rotorcraft Program Office. Gramm-Rudman was generally invoked as the culprit in this action. Industry folks ruminated as to what this closing would mean for the helicopter programs and heliport development in the agency. Several FAA officials were quick to assuage the community that it didn't mean helicopters were being relegated to a bureaucratic dark corner.

In the meantime, the Department of Transportation's Inspector General issued a report to the FAA that damned, with strong verbiage, the agency's heliport development program. "Personally I have some reservations about making recommendations to promote the use of rotorcraft and develop a heliport network," said the IG. "It appears that intercity heliport transportation is not a feasible goal for the near future. For example, comparing the variable operating costs of helicopters to automobiles shows that rotorcraft, while twice as fast, are also nearly four times more expensive to operate . . . I also have reservations about continuing to allocate valuable resources to promote the helicopter industry which benefits a very small segment of the aviation community."

Yet as these recommendations were made in the nation's capital, some 700 to 900 takeoffs and landings are taking place daily at Washington's National Airport. Leister remarked that, "The report fails to analyze the construction costs of millions of square feet of paved runways with the cost of a few hundred or a few thousand square feet of paved heliports. Sadly, there appears to be no cognizance of the economics of efficiency or the value of time to the business and public traveler."

David S. Lawrence, Sikorsky's director of strategic planning would appear to agree. He points out that in 1985 there were 300,000 general aviation operations at the six major airports in the Northeast corridor. With a NE corridor system of all-weather heliports a third of those flying 300 miles or less could have been diverted to heliports. Essentially 10% of the flight activity could have been removed from those six saturated airports.

A Heliport Here, a Closed Heliport There

HAI, the American Helicopter Society (AHS), and other heliport enthusiasts tried to convince the powers-that-be that a downtown Alexandria, Virginia, public-use heliport was just what the community needed. Adding economic clout to their arguments is the fact that both HAI and AHS have their headquarters in

Alexandria and they own the buildings. But city officials were not convinced and Alexandria remains heliport-less.

Then in late August, Houston, Texas—a city characterized in the past by helicopter operator and community dogfighting—opened its first public-use heliport. To put the huzzahs in perspective, it should be noted that the city first got $72,000 to fund a heliport site selection study back in September 1982.

On the subject of system/master plans, the news from the front was encouraging. J.J. Barber, in a May 1986 article in *Rotor & Wing International*, pointed out that New Jersey, Michigan, Louisiana, and Connecticut all had heliport projects planned or in progress. Plus, regional studies were being conducted in California, Pennsylvania, Texas and New York while in Boston, Massachusetts; Anaheim, California; and Mesa, Arizona heliport development was being incorporated into the city's municipal planning.

The Eastern Region Helicopter Council reported in its November 21-22, 1986, Annual meeting overview that Trenton, New Jersey, had made a final choice on a new heliport site. The New Jersey Dept. of Transportation has also set aside $300,000 of matching fund money to begin heliport development throughout the state.

The heliport battle is not just endemic to the U.S. The Trig Lane heliport serving London was forced to close during the year, leaving the Battersea Heliport to fulfill all traffic requirements. A substantial 11,039 helicopter movements were recorded in 1985 at the surviving London site. A central business district heliport in Sydney, Australia, was also closed as of June 30, 1986. This move was tempered by the opening of Australia's first public heliport at North Freemantle, Perth, in September.

From Critic to Friend

In response to an organized and growing number of citizen's complaints about helicopter activity in Los Angeles, city council president Pat Russell decided to go to Congress for some legislative relief. She wanted Congress to impose minimum altitudes for helicopter operations. Yet the helicopter community, working with Russell, managed to convince her and her constituents the machine had merit. Over a period of time noise complaints were reduced 90 percent and the dialogue continues.

In October 1986 the Helicopter Coalition Group and the Southern California Association of Governments (SCAG) issued a report entitled *A Positive Approach to Helicopter Community Compatibility*. As the title suggests, the report is constructive and positive. On the final page of the document there is a note: "Special commendation is given to the District Office of Los Angeles City Councilwoman Pat Russell through which the Helicopter Coalition Group was brought together and this publication initiated."

That's a long way from throwing helicopter brickbats at Congress.

For a copy of the 19-page report, write: SCAG, Aviation Program, 600 South Commonwealth Avenue, Suite 1000, Los Angeles, CA 90005.

While things mellowed in Los Angeles, the Illinois Department of Transportation began a program to develop an urban heliport system. Aeronautics Director Robert F. Coverdale explained, "Currently Illinois leads the nation in the number of certified hospital heliports but there are no publicly owned heliports in the downtown areas of our cities.

"Illinois is the first state to create a fulltime position for the development of a heliport system plan which will be part of our statewide airport system plan."

Duane S. Moore, the department's chief helicopter pilot and an HAI director, is managing the program.

On the regulatory side, the saga of the *Heliport Design Guide* continues. The FAA has offered the helicopter community three versions of this 1977 document and industry has generally thrown each one back. HAI's Leister said the major problems of the most recent go round centered on heliport parking requirements and IFR criteria.

"There was considerable industry opposition to the document but we understand that the FAA has defined the word helistop which we've wanted for years and they also put in specific language that says the guide is advisory in nature and it shouldn't be adopted as law," Leister noted.

Do Heliports Sell Helicopters?

After its first year of existence in downtown Indianapolis, the city's public-use heliport was assessed by *R&WI's* heliport columnist, Kathy Kocks. She reported that the heliport is averaging about 775 operations a month and Aerospatiale attributed two helicopter sales to the facility's existence. Other manufacturers echo this sentiment. "If we had heliports in cities downtown it would really act as a stimulus to our business. We could sell a lot more helicopters," a Sikorsky representative said.

In light of flattened sales and this professed desire for heliports, why aren't the manufacturers more vociferous in championing this issue?

"Helicopter manufacturers have largely abandoned the heliport issue," Frank McGuire, founding editor of *Helicopter News* explained, "and by doing so they have relegated the helicopter to offshore, remote area operation and to customers who own lots of real estate for private heliports. The helicopters we have now aren't quiet enough or cheap enough to operate intercity. Before manufacturers commit the funds to make helicopters that are technically equivalent to any modern airliner the tilt rotor will be here. But the tilt rotor only makes intercity economic sense when it carries a substantial number of people; and the larger it is, the less likely it will be allowed to operate downtown."

Add to this chilling appraisal a comment by a state aviation director: "We hear from leaders in your industry that we should do something about heliports. We would like to. But no one can really tell us what that should be or how we should go about it," and you begin to see some of the mountainous edges of the problem.

Someone is trying, Virginia. Recognizing the complexity of the problem and the critical need for public-use heliports, HAI has regrouped its heliport efforts. The long standing HAI Heliports and Airways Committee has been divided into the Heliport Technical Planning Committee, chaired by Dr. John Leverton of E. H. Industries and the Heliport Promotion & Development Committee chaired by Richard G. Stutz, Sikorsky Aircraft.

The Technical Planning Committee provides technical assistance to heliport planners and developers and will assist in the publication of a HAI/National Association of State Aviation Officials (NASAO) Regional Heliport Directory. The Heliport Promotion and Development Committee provides marketing and promotion assistance to heliport proponents.

HAI's Leister outlined the association's major heliport initiatives for 1987:

- Develop recommendations and rationale for post-1987 Airport Improvement Program (AIP) legislation
- Develop promotional heliport materials including brochures on heliport development, benefits, noise and safety and a 10 to 15 minute video on the same issues
- Determine who should receive these materials
- Organize teams and identify individuals to assist in responding to requests for heliport development information. Focus these efforts through regional/local organizations and regional FAA airport divisions and District Offices
- Prepare HAI's position and recommendations concerning the inclusion of heliports in FAR 150
- Develop a model heliport ordinance; add it to HAI's *Heliport Development Guide*
- Refine and publish economic benefits studies and update this information in HAI's *Heliport Design Guide*
- Revise HAI's *Heliport Design Guide*, develop independent sections, remove redundancy; expand sections on heliport fixed base operations; Coordinate this document with HAI's *Safety Manual*

• Develop credible safety data for heliport hearings and planning use
• Expand HAI's library to include slides, films and video materials from a wide range of sources
• Update and condense the *Fly Neighborly Guide* and outline new program strategies
• Identify individuals to lobby various national organizations
• Strengthen HAI Affiliate infrastructures and information exchange; Consider conducting heliport workshops
• Lower "hi-tech" issues and focus on "real world" needs
• Initiate Fly Neighborly/Safety Programs for operators/pilots
• Emphasize "We Fly Neighborly" certificates and the value of receiving these awards

Tackling and actually producing any number of these items—the regional heliport directory, economic benefit studies, a model heliport ordinance, promotional brochures and a video—would make 1987 a productive year for the entire helicopter community.

The News Release—Your Written Link To The Media

The following are some tips in dealing with the media.

Pity the poor editor or television/radio news assignment person. (I can just see those tears welling up in your eyes . . .) They get hundreds of news releases a day and they've got to wade through this avalanche of paper in their search for something "newsworthy." Fortunately, (or unfortunately in the case of accidents,) helicopters attract press attention. If you have a story you'd like to see in the news, you're going to have a better chance of that story being used than say, a company who makes thumbtacks.

You can better the odds that your story will beat out the competition if you follow these suggestions on writing and distributing a news release. What is news? News is what's current, important, unusual, local, and relevant to readers and listeners. Of course if your story is not "newsworthy," no matter how beautifully created, your release will find its way into that big holding file known as the trash . . .

• Always type your news releases on 8 $^{1}/_{2}$ X 11 inch letterhead, on one side only and double-spaced.
• Make sure you include the name, address, office and home telephone numbers of the person that is to be contacted for more information.
• At the top of the page, indicate the date the story may be released, or type "For Immediate Release."
• Start the release about 1/3 of the way down the page. That gives editors room to write any instructions for reporters.
• Keep it factual and brief. One page is wonderful, two is acceptable and three pages will generally provoke grumbling.
• If your release runs longer than one page type MORE at the bottom of the page. Indicate the end of the release with "-30-" or "# # # #."
• If you can, send dynamic action photographs along with the release. Use a black and white 5 X 7 or 8 X 10 picture and tape a caption to the bottom of the photograph. Never ever write on the back of the picture.
• Keep your sentences punchy, short and use the "active" tense. Don't use jargon. If you feel the need to throw in a few acronyms, make sure you identify the abbreviations when they're first mentioned.
• Make sure the information in the release is accurate. Ask yourself— does it provoke a "gee, I didn't know that . . . " from a disinterested bystander. That's the test of a good story. Meticulously comb for typos. Editors have a tendency to dismiss a release as "amateurish" after the second typo.
• Right in your beginning paragraph tell who, what, when, where and why. Reporters employ the theory of the inverted pyramid. Put your most important information up front and then add "the nice to know" as you continue.
• Don't break a sentence or a paragraph at the bottom of a page.
• Be prepared to provide additional details if and when a reporter calls.
• Distribute all the releases simultaneously. If you give it to more than one reporter at a news operation, make certain they know you've done so.
• Don't be even mildly insulted if your story doesn't appear in print exactly as you wrote it. The point is to get your story told.

Swinging Blades and Imitation Rabbits

People are strange, especially in regard to swinging blades.

They tolerate — on an otherwise pleasant weekend — the racket of a machine which does nothing more useful than swing a blade to chop off bits of grass.

Shucks, a rabbit can do that!

But for hours people tolerate noise, because without a lawnmower's swinging blade they might have to get down on hands and knees and clip grass with a pair of scissors.

No one seems to think it's strange that a clattering machine is used for such a simple and — let's face it — dumb job.

Nor do they think it strange that some complain about another swinging blade . . . on a helicopter. The helicopter may be within earshot for only thirty seconds, compared to hours of arms-length roar from a lawnmower, but the helicopter bothers some people.

Lawnmowers don't carry injured people to hospitals, but lawnmowers sent an estimated 78,000 people to hospitals with injuries in 1985.[1]

Lawnmowers don't fight forest fires, but lawnmowers, chain saws and machines like them start nearly 10,000 such fires each year.[2]

Lawnmowers don't search for fugitive criminals, or lift desperate people from raging seas or burning roofs, or build bridges and powerlines, or carry government and commerce on their appointed rounds, or do a thousand other things you have not dreamed of.

The swinging blade on a helicopter is more or less noisy; less noisy in your heart than a child injured a long way from a hospital, but certainly more noisy than scissors snipping grass . . . or a burned forest . . . or a drowned sailor.

Helicopters are more noisy than anything in the world when someone decides they are.

No, the helicopter is not perfect; and yes, it should be quieter than it is.

We're working on it; but while we're working on it, please remember: those distant helicopter blades do more useful work in thirty seconds than the imitation rabbit making that incredible noise does at the end of your arm in thirty weeks.

A bumper sticker says: "Be patient. God isn't finished with me yet."

Please be patient. We're not finished with the helicopter yet.

Hey lawnmower designers! Wanna race?

A message in the public interest from

Kimberly Communications Corp.

6917 Arlington Rd., Bethesda, MD 20814

[1]U.S. Consumer Product Safety Commission. [2]U.S. Forest Service.

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The Year in Review— 1987 Helicopter Annual

The items listed below are just the "tip of the iceberg." We have selected these particular items as being reasonably representative of the types of activities in which HAI is involved, on behalf of the civil helicopter industry.

Probably very much like your situation, these events don't occur nicely spaced-out during the year. Typically, the flaps start at quitting time on Friday afternoon, or just as you're beginning an important meeting.

The blunt questions we ask ourselves, usually during these annual reviews, are:

Was it a good year?
Did we move ahead?
In both cases, for 1986, it is clear that the answer is a resounding, "Yes!"

1/26/86 HAI's 38th Annual Meeting & Industry Exposition opened in Anaheim, California and more than 8,400 registrants attended plus 3,000 walk-ins on Public Day. The 1986 Helicopter Annual was officially released just prior to the Exposition. HAI's pre-show management and safety courses had their highest enrollments this decade.

1/26-28/86 Traffic in the exhibit halls was excellent throughout the show. Special exhibits included the McDonnell Douglas/-U.S. Army AH64 "Apache" gunship; the Bell 222 "Airwolf" television ship; MBB's BO-103, a 1961 helicopter with a one-blade main rotor; and a vintage Sikorsky YR-4.

1/26/86 Participants in the first helicopter rescues, both combat and civilian, gathered in an historic reunion during the 38th Annual Meeting & Industry Exposition. This event was planned and arranged by John Slattery, curator of the Helicopter Foundation International's archives.

1/86 Stephen R. Sullivan, Aris Helicopters, Ltd., and Joseph Gross, Mobil Oil Corp., were reelected to the HAI Board of Directors. Frederick Moore, Okanagan Helicopters, Ltd. was elected to the HAI Board.

1/86 President Frank L. Jensen, Jr. addressed the Board of Directors meeting of the Airborne Law Enforcement Association; he also attended the dedication of the New Orleans Public Heliport.

2/86 President Jensen, under the auspices of the Small Business Legislative Council, met with Secretary of Transportation Elizabeth H. Dole to discuss privatization.

2/86 Director Glenn A. Leister was asked to serve on a task force to investigate crowded conditions at National Airport and the effect of helicopter traffic.

2/86 "Helicopter Operators . . . Ready Today!" was chosen as the theme for the 39th Annual Meeting & Industry Exposition.

3/86 Director Kenneth K. Woolnough attended the ASHBEAMS Safety Congress which drafted guidelines for hospitals in selecting helicopter companies for their EMS operations.

3/86 HAI's Executive Committee met at Lake Charles, Louisiana.

3/86 General Counsel Steffanie D. Parker chaired an American Bar Association Subcommittee on Trade Association Law.

3/86 General Counsel Parker assisted Grand Canyon Helicopters and Kenai Air Hawaii, Inc. with an Internal Revenue Service excise tax issue affecting sightseeing tours.

4/86 President Jensen, Treasurer Stephen R. Sullivan and Director Leister, with a number of industry representatives met at the FAA to discuss the administration's draft Heliport Design Guide. An agreement was reached which fully supported the HAI/industry position.

4/86 President Jensen attended the annual meeting of the U.S. Chamber of Commerce—a meeting also attended by Secretary of Transportation Dole, Secretary of the Interior Hodel and Secretary of Labor Brock.

4/86 HAI was represented at meetings of the Eastern Region Helicopter Council, the FAA Air Traffic Procedures Advisory Committee, NASA's Aeronautical Advisory Committee, and the FAA's Rotorcraft Task Force.

4/86 General Counsel Parker worked with the Alaska Air Carriers Association, ERA Helicopters and Alaska Helicopters in resolving a serious contractual problem involving the U.S. Departments of Labor and Interior.

5/86 President Jensen testified before the Parks and Recreation Subcommittee of the House Interior and Insular Committee concerning H.R. 4430.

5/86 President Jensen attended a White House session on Tort Reform/Liability hosted by President Ronald Reagan with Attorney General Edwin Meese and Secretary of Commerce Malcolm Baldridge also present.

5/86 Then Vice Chairman Wanda L. Rogers chaired a meeting of the General Aviation Advisory Committee (GENAVAC).

5/86 Director of Heliports and Airways Leister attended the American Association of Airports Executives Annual Exposition.

5/86 General Counsel Parker achieved a delay in enforcement of the U.S. Customs regulation requiring one hour prior notification by aircraft of penetration into the ADIZ in the Gulf of Mexico.

5/86 More than 6,000 insurance questionnaires were mailed to all HAI members and non-member operators in the U.S. to determine the severity of their insurance problems and to determine interest in proposed HAI insurance programs. There was an excellent and meaningful response to this survey.

6/1/86 HAI Past Chairman Gian Franco Blower, Elitos Helicopters, is named Chairman of the European Helicopter Operator's Committee.

6/4/86 Wanda L. Rogers, Rogers Helicopters, Inc. is named Chairman/CEO of HAI.

6/4/86 HAI held its Fifth Annual Washington reception for aviation- related government officials, the media and the Board of Directors.

6/4/86 HAI's Safety Committee met at HAI Headquarters under the direction of its

new Chairman Loren Doughty of Bell Helicopter.

6/86 General Counsel Parker supported a recommendation by the Small Business Legislative Council that a Federal Commission be established to review the McCarran Act to ensure that lower tort costs translate directly to reduced insurance premiums.

6/86 HAI obtained a "FAX" machine which sends and receives photos and hard copies to members' facsimile machines here and abroad. HAI's "FAX" number is: (703) 683-4745.

6/86 The call for nominations for the 26th Annual HAI Awards was mailed to the full membership and the media.

6/86 Captain Frank S. Root, Arizona Department of Public Safety, is named Chairman of HAI's Public Service Committee.

7/3-6/86 HAI exhibited at Airborne Law Enforcement Association Annual Meeting in Arlington, Texas.

7/86 HAI's "HOTLINE", which provides instantaneous access to Safety items, Trade Opportunities, HAI News and Industry News, through a computer and modem, became available to the HAI membership.

7/86 President Frank L. Jensen, Jr. testified before the House Public Works and Transportation Committee's Aviation Subcommittee, and the Senate's Science and Transportation Committee's Aviation Subcommittee in favor of re-authorization of the National Transportation Safety Board with expanded authority to include the investigation of all non-military aviation accidents.

7/86 Director Woolnough acted as a test subject in the FAA's heliport lighting simulator tests.

7/86 Chairman Rogers sent all HAI members a letter asking for their views about the direction of the Association. "Whether a commercial, corporate or public service operator, small or large, a manufacturer, service company, supplier, insurer, broker or a believer of helicopters anywhere in the world, we must stand together on those areas where we clearly agree," the letter concluded.

7/86 HAI petitioned Secretary of Transportation Elizabeth H. Dole to take action to insure aviation safety involving balloon operations in the Gulf of Mexico which posed a serious hazard to low-level flights in that area.

8/10/86 HAI celebrated its first anniversary in its Alexandria, Virginia Association-owned headquarters. The significance of this purchase and its great benefits to HAI cannot be overemphasized.

8/21/86 HAI hosted a meeting at its Alexandria, Virginia headquarters which focused on heliport development. Representatives of the American Helicopter Society, Sikorsky Aircraft, McDonnell Douglas Helicopter Co., Aris Helicopters, Inc. and U.S. Jet attended.

8/86 HAI petitioned to extend DOT Exemption No. 2695 which permits operations without complying with certain performance, operational and maintenance requirements.

8/86 Ted Dumont (retired), Sikorsky Aircraft is asked by the HAI Board of Directors to chair the Automatic Engine Trend Monitoring Program. This equipment has the capacity to monitor every dynamic component of the helicopter.

9/86 HAI is represented at the Farnborough Air Show, the Appalachian Helicopter Pilots' Association quarterly meeting, the FAA Airworthiness/Safety Seminar, the Mid-Atlantic Helicopter Association's annual meeting and the NBAA annual meeting.

9/86 President Frank L. Jensen, Jr. made a speech before the Airport Operators Council International meeting.

9/86 President Jensen made a speech and gave a slide presentation at the National Association of State Aviation Officials annual meeting.

9/29/86 HAI hosted a "Heliport Development" workshop in Anaheim, California. HAI's heliport development structure was reorganized to include the HAI/AHS Steering Committee, the HAI Heliport Planning Committee, and the HAI Heliport Development Committee.

10/15/86 HAI hosted the CFI/Maintenance Technician Award program in Washington, DC with five co-sponsoring associations. Chairman Rogers was the luncheon speaker.

10/15/86 Chairman Rogers chaired the Fall 1986 meeting of GENAVAC at the University Club in Washington, DC.

10/86 HAI's Executive Committee, Board of Directors and Safety Committee met in Dallas, Texas site of HAI's 39th Annual Meeting and Industry Exposition. Nick Blaskoski, Allison Gas Turbine, is named as Engine Representative to the HAI Board of Directors.

10/86 HAI exhibits at NBAA's Annual Meeting in Anaheim, California, and the annual meeting of ASHBEAMS held in Washington, DC.

10/86 HAI participated in a study by Management Analysis Associates on systems used by civil helicopter operators to control operating costs- particularly repair parts inventory.

11/86 HAI's Acoustics Committee met in Alexandria, Virginia and was briefed by the FAA on planned revisions to the Heliport Noise Guidelines Advisory Circular and Helicopter Noise Model.

11/86 HAI is represented at the annual meeting of the Eastern Region Helicopter Council.

11/86 HAI Legislative Action Committee is reorganized and meets in Alexandria, Virginia.

11/86 HAI safety posters are selected for calendar year 1987 to be distributed to all regular members.

11/86 The Association petitioned the Secretary of Agriculture to withdraw an IFB which waived provisions of FAR Part 135 for restricted category and recip-powered helicopters.

12/86 HAI's Executive Committee, Awards' Committee, Legislative Action Committee, Manufacturers' Committee and Political Action Committee met in Alexandria, Virginia.

12/86 Chairman Wanda L. Rogers was an honored head table guest at the 1986 Wright Memorial Banquet.

Helicopter Association International

HAI works for the helicopter industry.
HAI works for its members.
And HAI will work for you.

Join the Helicopter Association International and you can take advantage of its many benefits and services. As an HAI member you get:

★ The Annual Meeting and Industry Exposition.
The most concentrated gathering of qualified buyers anywhere.

★ Subscription to *Rotor News*, *Rotorgram*, and *The Helicopter Annual*.
Copies of important industry publications: Fly Neighborly Guide, Vis[illegible] Unlimited, Heliport Development Guide, Safety Manual, and others.

★ Participation in the Fly Neighborly Program

★ Access to the HAI Helicopter Hotline
for up-to-date information on proposed regulations, malfunction reports, manufacturer's alerts, critical airworthiness directives, government contracts, employment opportunities, and more

★ Access to the Helicopter Foundation's Archives

★ Options to participate in HAI insurance programs

★ A voice in Washington and state capitals —
coordinating opposition to restrictive helicopter legislation

★ An option to participate in twenty-two HAI service/support technical committees

★ An active part in the largest, open, continuing helicopter forum in the World.

Find out how you can become part of this vital and growing organization. Call Membership Manager Kate Miller at: (703) 683-4646.

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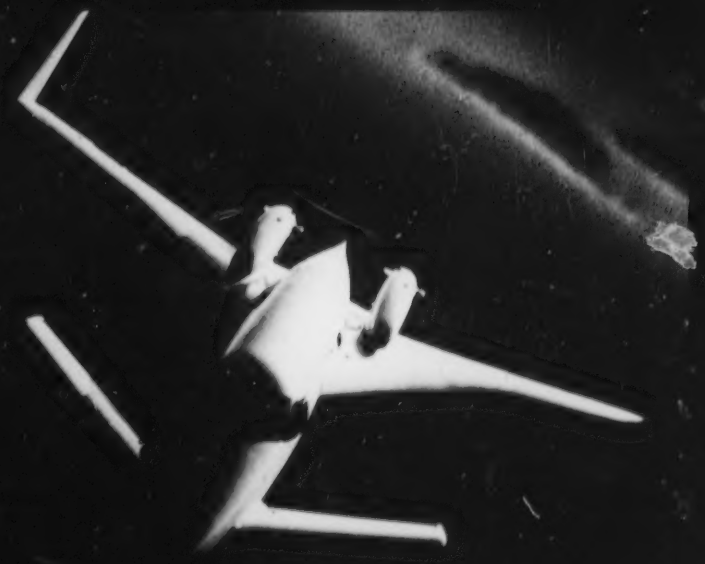

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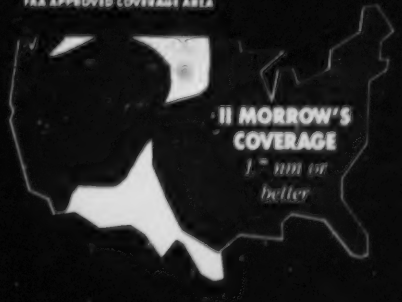

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Chairman's Message

"All your strength is in your union,
All your danger is in discord."

—Henry Wadsworth Longfellow

Wanda L. Rogers *is Executive Vice President of Rogers Helicopters, Inc., a helicopter operation that was started 26 years ago. Rogers Helicopters is involved in all phases of helicopter operations including construction, survey, movies, electronic news gathering, traffic watch, personnel transport, fire fighting, pipeline, patrol, emergency medical services, cargo, snow survey, photography, game herding, agriculture, offshore, seismic, cement pouring, insulator washing, search and rescue, temperature control etc.*

Rogers is active on legislative issues regarding helicopter operations and is an advocate for the private sector.

In addition to her functions as Executive Vice President of Rogers Helicopters, she is the current Chairman of HAI. She served on the Government Contracting Committee for five years and has been on the HAI Board for seven years. While on the Board, she has served as Secretary, Treasurer, Vice Chairman and Chairman.

In 1980 she founded the Clovis, California, Community Bank. She was elected Chairman of the Board and has served in that capacity for six years. Rogers is also a Director of the Community Hospital of Central California; a Director of San Joaquin Gardens; and a Past President of the Commercial Helicopters Operators Council.

She resides in Clovis, California, with her husband, Harry Rogers, President/C.E.O. of Rogers Helicopters, Inc., and her two sons, Robin and Rory Rogers, Vice Presidents of the company.

These lines of Henry Wadsworth Longfellow are certainly applicable to us, the helicopter community. Although we comprise a relatively small segment of the general aviation industry, we must work together to achieve the mutual goals of safety and public acceptance, as well as other important shared objectives.

To the extent that some elements within the helicopter industry may have strong differences, we must, at every opportunity, smooth the ripples of discord. At the very least, we must not pursue our parochial objectives through attacks on our helicopter brethren.

The Helicopter Association International (HAI) has been serving the industry since 1948. HAI remains an open and continuing forum, offering a vehicle for focusing and expressing the views of a useful and vital community. I am honored to serve as HAI's elected Chief Executive Officer, having been a participant in HAI's activities for many years. I felt justified in asking all owners and operators to take a closer look at the opportunities presented by HAI.

I also wish to communicate that HAI represents a composite of the industry, and is comprised of knowledgeable and professional individuals who represent companies which are themselves managed in accordance with high ethical standards and with efficiency and economy of operations. These member organizations, and their designated HAI representatives, perceive the changes in our industry, and they are collectively directing HAI to adjust to these changes.

As examples:

HAI's committee structure is evolving. Some of the committees, notably the Acoustics, Regulations, Safety and Technical Committees, are long-standing pillars of the HAI's productivity. Other committees are of shorter duration, being activated to address short-term situations, or perhaps are of a nature that does not require frequent meetings during the year. Within the past few months, HAI's Heliports and Airways Committee has recently been re-structured into two separate committees: The Heliport Technical and Planning Committee under Dr. John Leverton of EHI; and The Heliport Promotion and Development Committee under Mr. Richard Stutz of Sikorsky Aircraft. This change was made in view of the complexity of helping communities to develop heliports, and the need to create a committee structure capable of responding to this demanding requirement.

HAI has created a Helicopter Hotline, applying the latest in computer technology to communicate better with the helicopter industry. This "Hotline" is more than an electronic bulletin board—it incorporates current information on safety, malfunction or defects, contract opportunities, legislation status, and the like. I urge you to give the "Hotline" a try—help us to make it into a useful and effective tool for the helicopter industry.

In response to the insurance/tort crisis, HAI has surveyed the helicopter industry, and has received specific information from more than 500 operators—most expressing real concern over the insurance situation. As a consequence, HAI is working with a capable and respected insurance firm to develop a hull and liability insurance program for the membership.

The point I am making is that HAI is a responsive organization and represents the macro-environment in which it operates. HAI is effective and your participation can make it even more so.

In closing, I would like to say that energy (oil, natural gas, etc.) has been the backbone of our industry for many decades. Exploration, production, and distribution have all required strong support from the helicopter industry, and, in turn, have given us much of our growth over the years. This built-in marketplace has dried up, as we well know. And what has the industry done? The industry has diversified, finding many new and useful applications for the helicopter, while continuing to serve the energy industry's needs.

When the energy-related work comes back, just think how much stronger the entire industry will be! With our ever-increasing versatility and diversification, we will be much more capable, and much better able to serve the public.

I do maintain a guarded optimism; but I'm staying in the industry. And I will continue to support the efforts of HAI on behalf of the entire industry! To paraphrase the quotation with which I started: All our strength is in our association-HAI. I invite you to join with us for the ever-brightening future.

President's Message

Frank L. Jensen, Jr., *HAI President, has been with the Association five years, first as Executive Director and now as President. A helicopter pilot since 1955, Mr. Jensen has an MS degree in Aerospace Systems Management from the University of Southern California. His aviation experience includes thirty years as an aviator, with commercial ratings in helicopter, fixed-wing, single and multi-engine, rotorcraft and instruments, as well as certification as a parachutist.*

Mr. Jensen, a veteran of Korea and Viet Nam, retired from the Army with the rank of Colonel in 1974. In 1981, Mr. Jensen was awarded the Department of the Army's Outstanding Civilian Service Medal, and a Department of Transportation Commendation. He owns and flies a Piper Arrow IV.

What characterizes a "RUGGED INDIVIDUALIST?" I believe it is having the ability to survive against all odds and having a strong and independent nature. Those traits seem to flourish in the helicopter industry, where we are working with a very capable but complex machine, and often in an environment which is less than ideal.

But there are times and situations where we MUST work together, to accomplish goals which are either difficult and impractical, or which perhaps seem impossible to achieve individually.

Interestingly, some of the most rugged individuals within our industry have long recognized the value of working together within a structured forum-the Helicopter Association International (HAI). These individuals and the industry as a whole have reaped the benefits of such cooperation. Take a look at the long list of HAI's Past Presidents and Past Directors, as examples of the kind of industry leaders of whom I am speaking.

How much progress could we have attained if some of the other, not-so-far-sighted individuals had seen fit to join forces, and work together for the common good, within HAI's forum?

More importantly, we need to ask ourselves: How far can we go, together, if we get serious about cooperating towards some common goals within HAI's forum-starting today?

We have a strong foundation on which to build:

An organization which has served the industry since 1948;

A membership comprising more than 800 companies in 41 countries;

A dedicated, capable elected Board of Directors;

An effective volunteer committee structure;

A small highly-motivated full-time staff;

An owned office building;

A modern computer system, which includes HAI's newest innovation, the Helicopter Hotline, a computer-based information system;

The Helicopter Annual and other relevant publications;

A significant historical archive, including the world's largest collection of scale model helicopters;

A helicopter trade show that is the biggest and best in the world.

What HAI needs now, to advance toward its potential, is a real growth in participation, and a growth in membership. And, given the start which we already have, we can achieve this advancement, and this growth. Will YOU be a part of this advance?

Challenge yourself by participating! Grab a piece of the HAI action! Sign up ONE new member during 1987.

HAI has come as far as it has, only because of the extraordinary efforts of a relative few RUGGED INDIVIDUALS who were far-sighted enough to link arms and build an organization. On their behalf, and for the betterment of the entire industry, I ask YOU to personally assist in furthering this effort.

If you are in doubt about how to get started, please call me at 703/683-4646. I extend to you my appreciation in advance for your cooperation.

(Front row, from left) Vernon E. Albert, Treasurer (Petroleum Helicopters, Inc.); Wanda L. Rogers, Chairman (Rogers Helicopters, Inc.); Stephen R. Sullivan, Vice Chairman (Aris Helicopters, Ltd.); Frank L. Jensen, Jr., HAI President; ***(Second row, from left)*** Joseph Mashman, Special Advisor (Consultant); Wesley G. Lematta, Director (Columbia Helicopters, Inc.); Charles L. Andrus, Director (Exxon Company USA); James A. Hamilton, Airframe Representative (Bell Helicopter Textron); S. Duane Moore, Director (Illinois Department of Transportation); ***(Third row, from left)*** Theodore E. Dumont, Special Advisor (Consultant); Joseph G. Gross, Honorary Secretary (Consultant); ***(Fourth row, from left)*** Walter B. Comeaux, Jr., M.D., Special Advisor (Flight Surgeon); Laurence J. Maloney, Insurance Representative (Frank B. Hall & Company); Nicholas J. Blaskoski, Engine Representative (Allison Div. of General Motors); and Fred A. Moore (Okanagan Helicopters, Ltd.).

1986-87 HAI Board of Directors

1986-87 Board of Directors, Corporate Officers, and Advisors

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1967 Roy K. Falconer
1968 Godfrey A. Rockefeller
1969-71 Glenn W. McPherson
1972-73 J. Arlo Livingston (deceased)
1974 W.B. Rowe
1975 Frank W. Lee
1976 Menno S. Kamminga
1977 Richard A. Wien
1978 Donald L. Sides
1979 Vincent Colicci
1980 Delford Smith
1981 Carl Dougherty
1982 Gian F. Blower
1983 Loran E. Patterson
1984-85 Charles W. Johnson
1986 Wanda L. Rogers

In Memory of
J. Arlo Livingston
HAI Past President

The 25th HAI Annual Awards

Outstanding leaders of the civil helicopter industry were recognized at the HAI Annual Awards Ceremony, January, 1986, Anaheim, California.

Cited below are descriptions of the awards and their deserving recipients.

PILOT OF THE YEAR

Established in 1960, the Pilot of the Year Award is the oldest of HAI's 12 standing awards. The award recognizes an outstanding single feat performed by a helicopter pilot during the year, or extraordinary professionalism over a period of time. Nominees must be active civilian helicopter pilots.

Charles W. Johnson, left, Executive Vice President of ERA Helicopters, Inc. and then Chairman of the Helicopter Association International, presents HAI's Pilot of the Year Award to James Friday, Chief Pilot of the Indiana Public Service Company. Mr. Friday accepted the plaque for Pilot of the Year Junior VanDerVliet, also of the Indiana Public Service Company.

CREW OF THE YEAR

HAI has presented the Crew of the Year Award since 1980 in recognition of the support and team work of the specialized helicopter crew in performing the various missions of the civil helicopter. Nominees could have worked together on a particular mission, or in a consistently outstanding manner for a period of time.

HAI's Crew of the Year receives its award from then Chairman Charles W. Johnson, Center, Executive Vice President, ERA Helicopters, Inc. From left: Commander Glenn Serotsky; Avionics Petty Officer Daniel DeMarchis; Flight Mechanic Petty Officer Robert Warner; Chairman Johnson; Crew Chief Lieutenant Douglas Martin; and Co-pilot Lieutenant JG Bryan Welch.

ROBERT E. TRIMBLE MEMORIAL

The Robert E. Trimble Memorial Award honors a qualified pilot who is especially distinguished in mountain flying. The award was established in 1961 to focus attention on a pilot who has displayed exceptional ability and good judgement in high altitude flying and has: provided outstanding service to others, contributed to high standards of safety, and brought credit and recognition to the helicopter industry.

The Helicopter Association International's Robert E. Trimble Memorial Award is presented to pilot Robert Greeno, right, by the son of the award's namesake Gerald Trimble. The Award honors a pilot who has distinguished himself in mountain and high altitude flying.

MBB GOLDEN HOUR AWARD

The MBB Golden Hour Award was created in 1982 to honor an emergency medical services (EMS) helicopter pilot who has provided outstanding assistance in a specific emergency situation, thereby, advancing the helicopter in medevac operations.

William Helmig, right, receives the MBB Golden Hour Award from MBB's then Vice President of Sales, Donald Groenemann. Helmig, a pilot for Rocky Mountain Helicopters, Inc., rescued two people stranded on an abutment near a dangerous waterfall in the Arkansas River.

MAX SCHUMACHER MEMORIAL

The Max Schumacher Memorial Award was first presented in 1967 to recognize exemplary service to the helicopter industry through the advancement of the use of helicopters in urban area operations.

Philip Landi, right, Manager of Heliports and Helicopter Operations for the Port Authority of New York and New Jersey, receives the Helicopter Association International's Max Schumacher Memorial Award from then HAI Chairman Charles W. Johnson, Executive Vice President ERA Helicopters, Inc. The award recognizes exemplary service to the helicopter industry by advancing the use of heliports in urban area operations.

FLY NEIGHBORLY

Since 1982, the Fly Neighborly Award has honored commendable or significant contributions to individuals or organizations solving a critical noise complaint or problem. The Award is based on HAI's Fly Neighborly program which stresses voluntary noise abatement and community relations. Qualified nominees will have worked closely with an individual, citizen's group or political entity. Those eligible include: helicopter pilots and operators; community groups like chambers of commerce, service clubs or political bodies; regional helicopter associations; business entities; and federal, state and local governments.

Richard Eyster, right, past president of the Professional Helicopter Pilots' Association, accepts HAI's Fly Neighborly Award from then HAI Chairman Charles W. Johnson, Executive Vice President of ERA Helicopters, Inc.

LAWRENCE D. BELL MEMORIAL

The Laurence D. Bell Memorial was established in 1971 to salute excellence in management leadership. The award is granted to an individual who is recognized for long and significant service to the civil helicopter industry. Nominees need not be licensed pilots.

The Helicopter Association International's Lawrence D. Bell Memorial Award, which recognizes excellence in management and leadership in the helicopter industry, is presented to C. W. "Wes" Moore, right, then President of MBB Helicopter Corp., by Dwayne Jose, V.P. Marketing of Bell Helicopter Textron.

HELICOPTER MAINTENANCE

Established in 1973, the Helicopter Maintenance Award recognizes distinguished contributions to aviation safety through significant innovation in design, or longstanding excellence in the performance of helicopter maintenance.

Goran Wallert, right, Technical Director Ostermans Aero AB, receives the Helicopter Maintenance Award from then Chairman of the Helicopter Association International, Charles W. Johnson, Executive Vice President, ERA Helicopters, Inc.

McDONNELL DOUGLAS LAW ENFORCEMENT

First presented in 1972, the McDonnell Douglas Law Enforcement Award is given for a worthy contribution to the advancement of the crime-supression concept of helicopter patrol service. Nominees are not limited to pilots or law enforcement personnel.

Norm Hirsh, Executive Vice President of McDonnell Douglas Helicopter Co., left, presents the McDonnell Douglas Law Enforcement Award to Edward Kennedy, Chief of Air Operations for the U.S. Border Patrol. The U.S. Border Patrol was credited with the air-assisted apprehension of more than 97,000 illegal aliens in 1985.

EXCELLENCE IN COMMUNICATIONS

The Excellence in Communications Award is given to the print or broadcast journalist achieving the most creative and distinct dissemination of information about the helicopter. The Award was established in 1975.

Bruce F. Erion, right, Chief Pilot and general assignment reporter for WXIA-TV, Atlanta, Ga. receives the Helicopter Association International's Excellence in Communications Award from then HAI Chairman Charles W. Johnson, Executive Vice President, ERA Helicopters, Inc.

RAISE YOUR SITES!

The Raise Your Sites! Award, established in 1983, recognizes the person or organization that has done the most during the year to forward or promote the establishment of public-use heliports. Those eligible include: business professionals, mayors, legislators, planners, architects, chambers of commerce and city councils.

The Arizona Heliport Development Task Force, here represented by Ms. Diana Stuart, received the Helicopter Association International's Raise Your Sites! Award for the Task Force's efforts in promoting a heliport in Phoenix. Presenting the award is then HAI Chairman Charles W. Johnson, Executive Vice President, ERA Helicopters, Inc.

OUTSTANDING CERTIFIED FLIGHT INSTRUCTOR

HAI's Outstanding Certified Flight Instructor Award was established in 1985 to recognize superlative contributions by the helicopter flight instructor.

W. A. "Dub" Blessing, right, accepts the 1985 HAI Outstanding Certified Flight Instructor Award from HAI President Frank L. Jensen, Jr. Blessing, of Electronic Data Services, Dallas, Texas, is the first recipient of this award. He has been a helicopter instructor for ten years.

Helicopter Association Committees

"I ask you, as a helicopter professional, to work with HAI's elected leaders and staff. Whether a commercial, corporate or public service operator, small or large, a manufacturer, service company, supplier, insurer, broker or a believer in helicopters anywhere in the world, we must stand together on those areas where we clearly agree . . . Together, we have strength . . ." Wanda L. Rogers, HAI Chairman.

Acoustics Committee

During the past year, the committee focused on the development of the Federal Aviation Administration (FAA) Helicopter Noise Model (HNM) and revision of the Advisory Circular (AC) on Noise Assessment for New Heliports. The HNM is slated to be used as a tool to assist planners and developers who are currently considering or developing heliports.

The FAA is revising the AC to include all heliports and bring it in line with the approach used in FAR Part 150; issuance is expected in 1987. The committee has also reviewed FAA's proposed rulemaking to include heliports under the FAR 150 program which now covers airports.

The committee needs more operator participation and is seeking additional members to help assess economic impact, a factor not being fully considered. The committee continues to support the Fly Neighborly program and new HAI initiatives to provide tangible incentives and to formally recognize the many helicopter operators and individuals who are making this program work.

Chairman
Dr. John W. Leverton
Manager, Operational Development
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AEROREGS International

Staff Liaison
Glenn A. Leister
Director of Heliports & Airways

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James L. Kahan
Grand Canyon Helicopters

Leslie E. Light
Aerospatiale Helicopter Corp.

Srini Nagaraja
Agusta

Mark J. Orelup
Allison Gas Turbine Div.

Dr. D. S. Janaki Ram
McDonnell Douglas Helicopter Co.

Ronald G. Schlegel
Sikorsky Aircraft

Harry Sternfeld, Jr.
Boeing Vertol

Jack Thompson
Systems Control Technology

Craig A. Wilson
Avco Lycoming Div.

Agricultural

This committee tracks pertinent Appellate Court decisions and environmental actions which apply to aerial application of pesticides. Other activities include trying to obtain a new market for chemical liability drift insurance; dissemination of information on use of new pesticides and other chemicals; and discussions of any hazards that may result from the use of new chemicals that could affect the operator, his equipment, his crop or adjacent properties. The committee stresses training to avoid wire strikes and has a slide presentation which shows typical flying hazards such as obscured wires across valleys and hidden poles.

Chairman
Stuart W. Turner
Stuart W. Turner & Co.
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AEROREGS International

Staff Liaison
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Director of Heliports & Airways

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James T. Cheatham
Verticare

Albert P. Averill
Northeast Helicopter
Services, Inc.

William L. Knight
Rambling Rotors, Inc.

Dr. Carroll M. Voss
Ag Rotors

Commercial Operators

This committee provides recommendations to the HAI Board of Directors on any subject which is of special interest to commercial operators. It also functions as the Commercial Operators Committee of the American Helicopter Society.

Chairman, Board Liaison
Wanda L. Rogers
Executive Vice President
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Staff Liaison
Frank L. Jensen, Jr.
HAI President

Committee

Stephen R. Sullivan
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Vernon E. Albert
Petroleum Helicopters, Inc.

Kenneth M. Jones
Air Logistics

Fred Moore
Okanagan Helicopters

Wesley G. Lematta
Columbia Helicopters

Corporate Operators

This committee provides recommendations to the HAI Board of Directors on any subject which is of special interest to corporate operators. At press time this committee was being formed.

Chairman
Joseph C. Gross
HAI Director (Interim)

Economics

This committee assists the HAI membership in any aspect of the economical use of helicopters. Currently the committee is working on a booklet about how an operator can manage his cash flow to help achieve a profit in his operation. This report will be available in 1987.

Chairman
Robert D. Fox
Senior Vice President
Evergreen Helicopters, Inc.
3850 Three Mile Lane
McMinnville, OR 97128-9409
☎503-472-9361 ☐151306

Board & Staff Liaison
Frank L. Jensen, Jr.
HAI President

Committee

Vincent Colicci
Helicopter Services, Inc.

Joseph Mashman
HAI Special Advisor

Emergency Medical Services

This committee is comprised of individuals in key positions in the helicopter EMS community. The past few years have been characterized by rapid growth in this arena, which has proved a boon to a depressed civil marketplace and a commendable solution to the efficient transport of the critically ill and injured. The EMS committee is currently concentrating its energies on improvement in EMS operational safety. Two of the main objectives of the committee are: (1) Create a set of recommended operational guidelines for EMS helicopter operations; and (2) organize and promote EMS Safety Education programs and seminars. The first of these seminars, co-hosted by the HAI Safety Committee, will be held in conjunction with the 39th HAI Annual Meeting and Exhibition in Dallas.

The EMS Operational Guidelines Subcommittee was formed this year and presented a first draft of the Recommended Operational Guidelines to the full committee during its meeting at the 1986 American Society of Hospital Based Emergency Air Medical Service (ASHBEAMS) Annual Meeting in Washington, D.C.

Chairman
Russ Spray
Executive Director/Medical Group
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ERA Helicopters

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MBB Helicopter Corp.

R. R. Borland
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Dr. Christian Buehler
Swiss Air-Rescue (REGA)

Dr. Walter B. Comeaux, Jr.
Special HAI Advisor

Dr. Richard B. Donker
Memorial Hospital/Medical Center

Tom Einhorn
National EMS Pilot Association

Don Gamble
North Slope Borough

Floyd Helm
Rocky Mountain Helicopters

Sam Hewitt
Tracor Aviation

Michael A. Holtsclaw
Rambling Rotors, Inc.

John Hopkins
Emanual/Metro Hospital

C. J. Laubuschagne
Court Helicopters (PTY) Ltd.

Darrell E. Lewis
Executive Air Taxi Corp.

Frederick V. Martin, Jr.
Agusta Aviation Corp.

Nina Merrill
ASHBEAMS

Gary Moore
Maryland State Police

S. Duane Moore
Illinois Dept. of Transportation

Roy L. Morgan
Air Methods Corp.

John R. Murphy
St. Louis Helicopter Airways

Ken Norton
Aerospatiale Helicopter Corp.

Lt. Rich Oliver
Sonoma County Sheriff's Dept.

Chief Carlos Perez
Metropolitan Dade County

Dr. Thomas Poulton
Creighton University School of Medicine

Daniel Reich
St. Anthony Hospital/ASHBEAMS

William Rheams
Air Logistics

Dennis Rohlfs
Executive Air Taxi

Ronald Shackleford
Arizona Dept. of Public Safety

Robert L. Suggs
Petroleum Helicopters, Inc.

Timothy G. Wahlberg
Evergreen International Aviation

Don Wright
National EMS Pilot Association

Jayne Wynn
Care Flight

Dr. John Zuk
National Aeronautics & Space Administration

Government Contracting

This committee was organized to establish a communication link between the commercial helicopter contractors and the public agency user of helicopters to discuss contract issues. Additionally the committee is looking for contract opportunities for the commercial operator in all levels of government. Members strongly support the Freedom from Government Competition Act (S.1746) and the Office of Management and Budget (OMB) Circular A-76 Directive.

Chairman
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Board Liaison
Wanda L. Rogers
Rogers Helicopters, Inc.

Staff Liaison
Steffanie D. Parker
Legal and Administrative General Counsel

Committee

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Ray Franz
Idaho Helicopters

Joseph W. Green
El Aero Services, Inc.

Daniel J. Hawkins
Hawkins & Powers Aviation, Inc.

Lloyd Heckmann
Pumpkin Air

Carl Milko
Summit Helicopters

Robin Rogers, Alternate
Rogers Helicopters, Inc.

Dean Shealy
Crescent Airways, Inc.

Bill Wells
Cascade Helicopters

Helicopter Airlines

This committee works in cooperation with the Helicopter Airline Association and HAI members who are interested in the promotion and establishment of helicopter airlines. The committee meets on an ad hoc or as-needed basis.

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Resorts International Airline, Inc.
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Robert Chavis
New York Helicopters

Martin Schnabel
New York Helicopters

Dale Christman
McDonnell Douglas Helicopter Co.

HeliPAC

HeliPAC is an affiliate committee which serves the political interests of HAI in accordance with requirements set forth by the Federal Election Commission. This committee was being reorganized at press time.

Chairman
Vincent Colicci
President
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State Airport
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Board & Staff Liaison
Frank L. Jensen, Jr.
HAI President

Helicopter Flight Operations and Flight Instructors Committee

This committee, formerly the IFR/VFR Flight Procedures Committee, has refocused its efforts to complement HAI's safety programs and to strenthen HAI's commitment to safe and professional helicopter flight operations.

The committee seeks chief pilots, flight instructors, flight examiners and professionals as members who will actively participate in programs such as: FAA's Back to Basics, Pilot Judgment Training, Accident Prevention Counseling, Fly Neighborly and Safety Seminars, review of significant changes to FAA pilot/ATC/flight procedures, routes, flight publications/ regulations, VFR/IFR charts, and resolution of local/national/international flight operations problems affecting helicopters.

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Petroleum Helicopters, Inc.

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Donovan L. Harvey
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Rod Heim
Golden Nugget Helicopters

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Daniel E. Norman
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Aeromedical Services

Robert Wehr
Aerospatiale Helicopter Corp.

Craig Wheel
E. I. Dupont Nemours and Co.

Tom Solat
General Electric

Art Hill
Damin Aviation

Peter Lance
Columbia Helicopters

Terry Wolfe-Milner
Okanagan Helicopters, Ltd.

Jack Schweibold
HAI CFI Course Director
Allison Gas Turbine Div.

Peter McHugh
FAA, International Staff Liaison

Dave Wright
Sikorsky Aircraft

Heliport Promotion and Development

This committee is one of HAI's two heliport committees which have replaced the former Heliports and Airways Committee. The new committees, formed to place greater emphasis on public heliports, will work together to provide marketing, promotional and technical assistance to heliport proponents.

This committee will develop marketing strategies, materials to educate and lobby civic leaders, identify task force leaders and cities/areas requiring assistance, form task force teams, develop recommendations for post-1987 heliport funding legislation, develop economic data, and assist in updates of the HAI Heliport Development and Fly Neighborly Guides.

The committee is seeking members who will actively participate in heliport development on any level (local, regional or national), including heliport consultants, planners, manufacturer/marketing/public relations professionals, helicopter operators, and individual liaisons from governmental agencies involved in transportation systems.

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Staff Liaison
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Roger Brownlow
Fluor Flight Operations

Dick Rea
Boeing Vertol

Michael Davenport
Pacific Lumber and Shipping Co.

Jean Ross Howard
The Whirly Girls, Inc.

Ken Johnson
Avco Lycoming

Dr. Deanna Kitay
Aeronautics Interests International

Dr. Domenico LaSorsa
Agusta

David Lawrence
Sikorsky Aircraft

James V. Mottley
FAA, Airport Planning Division Liaison

LTC Pete Peduzzi
FAA, Heliports Liaison

Sonny Najera
Arizona Dept. of Transportation

Ron Reber
Bell Helicopter Textron

William and Roxie Stamer
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Peter Wright, Sr.
Keystone Helicopter Corp.

Robert D. Fox
Evergreen Helicopters, Inc.

Wylie L. Apte
White Mountain Airways

Bill McKenna
U.S. Jet Aviation, Inc.

Peter Wendt
Damin Aviation

John Anderson
City of Anaheim Planning Dept.

L. Clark Wirthlin
McDonnell Douglas Helicopter Co.

Gary Kovach
MBB Helicopter Corp.

Chris Eberhardt
CommuniQuest

Vic Bandini
Indianapolis Heliport Corp.

John Kerby-Miller

Donald R. Segner
Aviation Consultant

Archibald A. Smith, II
Connecticut Air Service

Mackie Mott
Sikorsky Aircraft

Robert O. Brewster
Hartford Helicopters, Inc.

Dale Christman
McDonnell Douglas Helicopter Co.

Heliport Technical Planning

This committee, one of HAI's two new heliport committees, was formed to enhance HAI's ability to provide technical assistance to planners faced with increasing demand for heliports/helistops, and assistance to heliport developers who are faced with difficult questions and increasing resistance from planners and authorities.

The committee includes professionals who are familiar with technical aspects of heliports, heliport applications, heliport designs, statistical and safety data, heliport upgrades, and FAA procedures. Committee members will help staff heliport teams to assist local heliport task force leaders.

The committee will help develop the HAI/National Association of State Aviation Officials' Heliport Directory, review new heliport design criteria, revise sections of the HAI Heliport Development Guide, and work closely with the Acoustics, Safety and Heliport Promotion and Development Committees to establish safe and efficient heliport systems to serve the public. The committee is seeking new members who are interested in actively advancing the practical aspects of heliport technology.

Chairman
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Manager, Operational Development & Environmental Projects
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Staff Liaison
Glenn A. Leister
Director of Heliports & Airways

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G. Roy Fox
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Stephanie Slavin
Aviation Business Consultants

David O. Smith
MBB Helicopter Corp.

Diana Stuart
HeliSite Associates

Jack Thompson
Systems Control Technology

R. A. Balzer
Boeing Vertol

L. R. Moxam
Westland Helicopters

Ward Gill
View Top Corp.

Carl Brown
Air Logistics

Jerry E. Whitman
Shell Offshore

Francis J. Curnow
Sikorsky Aircraft

John C. Helm
TransWestern Helicopters, Inc.

S. Duane Moore
Illinois Dept. of Transportation

Catherine Nickolaisen
Director, N.J. Aeronautics, NASAO Liaison

James H. Frye
Triad American International

Moe Haupt
National Business Aircraft Association

Joseph C. Gross
Hartford Helicopters, Inc.

Stuart C. DeLeeuw
JFC Helicopter Inc.

Thomas H. Marlow
ERA Helicopters

Michael D. Vick
Greystone

Bryan Rakoff
Consultant

H. E. "Pete" Griffith
IBM Flight Operations

Jack Armstrong
Consultant

Mike Harrison
FAA, Heliport Directory Liaison

James W. Bushee
FAA, Heliport Design Liaison

Donald W. Turrentine
Aerospatiale Helicopter Corp.

Dale Christman
McDonnell Douglas Helicopter Co.

Legislative Action Committee

The Legislative Action Committee has four objectives: 1) To recommend action to HAI's elected leaders; 2) To become informed on important issues; 3) To communicate with Congress; and 4) To inform the HAI membership. The committee is comprised of lobbyists, Chief Executive Officers and other leaders of member organizations. At press time the Committee Chairman and members had yet to be elected and appointed.

Manufacturers Committee

This committee focuses on areas of general manufacturers interests. It provides a forum for discussion on subjects of mutual concern and these subjects are referred to HAI management for resolution.

Co-Chairmen
James A. Hamilton
Vice President, Commercial Marketing
Bell Helicopter Textron
P.O. Box 482
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Nicholas J. Blaskoski
Sales Manager, Model 250 Engines
Allison Gas Turbine Div.
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Daniel P. Warsley
Director, Member Services

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J. F. Byrnes
Agusta Aviation Corp.

Ken Hamilton
Avco Lycoming Div.

Tony Parente
Avco Lycoming Div.

Richard Rea
Boeing Vertol

George Rahman
Enstrom Helicopter Corp.

Max Wiley
McDonnell Douglas Helicopter Co.

Lewis A. Bedilacqua
General Electric Co.

Andreas (Andy) Aastad
MBB Helicopter Corp.

J. N. (Tony) Clark
Pratt & Whitney Canada, Inc.

Frank D. Robinson
Robinson Helicopter Co.

Rudy Schwarz
Rolls-Royce, Inc.

Mackie Mott
Sikorsky Aircraft

John Driver
Westland, Inc.

Membership

This committee serves as a clearinghouse for ideas and programs intended to serve and increase HAI's membership.

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Terry Jones
Voljet International Corp.
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Staff Liaison
Frank L. Jensen, Jr.
HAI President

Committee

Gian F. Blower
Elitos Helicopters S.p.A.

Bob Brewster
Hartford Helicopters, Inc.

Bill Evans
Crescent Airways, Inc.

Robert A. Richardson
Aviation Technical & Information Service

James M. Sanchez
Los Angeles County Fire Dept.

Donald L. Sides
Blackhawk Helicopters, Inc.

Offshore

The primary purpose of this committee is to share information on worldwide offshore activities and promote safe offshore operations.

Chairman
Walter L. McKeown
Exxon Company USA
P.O. Box 61707
New Orleans, LA 70161-1707
☎540-561-4631

Staff Liaison
Kenneth K. Woolnough
Director of Safety & Technical Programs

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Gian F. Blower
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Carl F. Brown
Air Logistics

H. C. Brown
Petroleum Helicopters, Inc.

John W. Brown
Atlantic Richfield Co.

F. L. Clough
Tenneco, Inc.

Alastair C. Gordon
Bristow Helicopter Group Ltd.

Joseph C. Gross
Consultant

Carey Howard
Mobil Oil Corp.

Charles W. Johnson
ERA Helicopters, Inc.

J. C. Jones
Sealand Helicopters Ltd.

C. J. Laubuschagne
Court Helicopters (Pty) Ltd.

Herman O. Moore
Chevron U.S.A., Inc.

Will O'Brien
ERA Helicopters, Inc.

J. C. Ross
Esso Australia Ltd.

Charles Schmitt
Heli Union

Delford M. Smith
Evergreen Helicopters, Inc.

Fred Snell
Columbia Helicopters, Inc.

Jerry E. Whitman
Shell Offshore, Inc.

Public Relations Advisory Council

The Council works to improve HAI's relations with the media and the general public's understanding of the benefits to communities from the operation of civil helicopters. The Council recommended that HAI join with the American Helicopter Society in an Image Enhancement Program for the helicopter industry.

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Vice Chairman
Ralph Wortmann
The Garrett Corp.

Staff Liaison
Daniel P. Warsley
Director, Member Services

Committee

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Pratt & Whitney Canada

Randy Furtick
Soloy Conversions, Ltd.

Carl Harris
Bell Helicopter Textron

Jean Ross Howard
Whirly Girls

Frank L. Jensen, Jr.
HAI President

Holly Latham
Evergreen Helicopters, Inc.

Robert Mack
McDonnell Douglas Helicopter Co.

Donald O'Brien
Allison Gas Turbine Div.

Ralph Petragnani
Aerospatiale Helicopter Corp.

Louis Savenelli
Avco Lycoming

John Slattery
Helicopter Foundation International

Robert Stangarone
Sikorsky Aircraft

Norman Teich
Tracy-Locke/BBDO Public Relations

Robert Torgerson
Boeing Vertol Co.

Public Service

This committee provides recommendations to the HAI Board of Directors on any subject which is of special interest to the public service community. Members are comprised of any public service operator members of HAI.

Chairman
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Commander, Aviation Division
Arizona Dept. of Public Safety
Air Rescue Section
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HAI President

Regulations

The Regulations Committee, one of the earliest committees formed by the HAA/HAI, is charged with preparing and/or overseeing all Association outputs regarding aeronautical regulations and standards. Due to the broad diversity of the subject matter covered by those activities and the existence of dedicated expertise on certain technical subjects within other committees, the work effort is divided into "Task Forces" listed below. Any association member may become active on any Task Force upon notification to the Chairman of the Committee.

HAI represented its members in the following regulatory activities in 1986: a solicitation of views on transport category helicopters performance; a solicitation of views on the desired location of engine controls; proposed helicopter noise certification standards; proposed identification markings to assist the Customs Service in its interdiction of illegal importing of drugs; a two-year extension for the exemption of helicopter operators from certain portions of FAR 135; development of helicopter noise assessment procedures; extension to heliports of the "Airport Compatibility" noise standards; resolved potentially adverse FAA policy on metric gauges; and opposed petition for rule change on Mode C transponder requirements.

It is expected that 1987 will be an equally active regulatory year with the following projects expected: flight handling qualities standards for low- speed IFR approaches; expansion of structural fatigue substantiation practices; upgrading of the helicopter certification guides; more extensive occupant restraint standards; qualification and reorganization of the standards for Parts Manufacturers Approval; airworthiness certification standards for advanced VTOL aircraft (e.g., tilt rotor); revised airframe airworthiness standards emanating from the Rotorcraft Regulatory Review Program of 1979; revised proposals for transport category helicopter performance; new rating structure for helicopter engines; turbine burst protection for transport category helicopters; addition of regulatory-related information to the HAI Helicopter Hotline; and proposals to produce greater harmony between the FAA and British CAA airworthiness standards.

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(see Commercial Operators Committee)

General Operations Task Force

Acoustics Task Force
(see Acoustics Committee)

Agricultural Task Force
(see Agricultural Committee)

Heliports Technical Planning Task Force
(see Heliports Technical Planning Committee)

Helicopter Flight Operations & Flight Instructors Task Force
(see Helicopter Flight Operations & Flight Instructors Committee)

Safety Task Force
(see Safety Committee)

Technical Task Force
(see Technical Committee)

Safety

This committee is comprised of a cross section of the helicopter industry including representatives from agriculture, air carrier/air taxi, corporate, public service, manufacturers, and insurance companies. The committee maintains a close working relationship with the FAA, regional associations and the HAI membership.

This past year the Safety committee, in cooperation with the HAI EMS committee, established a one-day Emergency Medical Services (EMS) Safety Seminar for the HAI Annual Meeting in February in Dallas. The seminar's objective is to identify EMS problems and address possible solutions. HAI is working with the American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS), the Airborne Law Enforcement Association (ALEA), the FAA and the National EMS Pilot Association.

The committee also organized a safety managers roundtable at the Annual Meeting. Other safety courses conducted during the Annual Meeting include the University of Southern California (USC) Safety Management Course, the Certified Flight Instructor Revalidation Course, Operator Management Course, and the Maintenance Management and Adminstration Course.

The committee continues to update and develop new safety handbooks and bulletins for distribution to the HAI membership. These publications include the Safety Manual, "The Helicopter User's Guide", and the Safety Review (a bi-monthly newsletter.)

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Statistical

This committee, which is currently being formed, has two objectives: To receive statistical requirements, other than safety statistics, from various committees; and record those statistics on the HAI data base so the information can be available to subscribers of the HAI Hotline. Members should be computer knowledgeable.

Staff Liaison
Steffanie D. Parker
Legal and Administrative General Counsel

Technical

In the past year this committee focused on reducing direct operating costs and working with airworthiness directives. The main focus of 1987 will be to solicit information for HAI's new Maintenance Malfunction/Information Report. This report will help mechanics efficiently report all minor and major problems that they uncover. The committee is also working to develop a safety award program for helicopter mechanics.

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This alphabetical index of HAI members is separated according to the following categories: Regular Operator/Associate; Affiliate; Sustaining and Student. All Regular Operator members have a • following their company name. The page numbers in the index will lead you to the most complete company profile.

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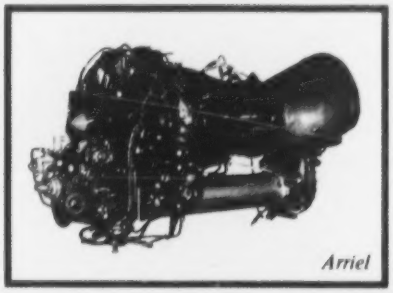

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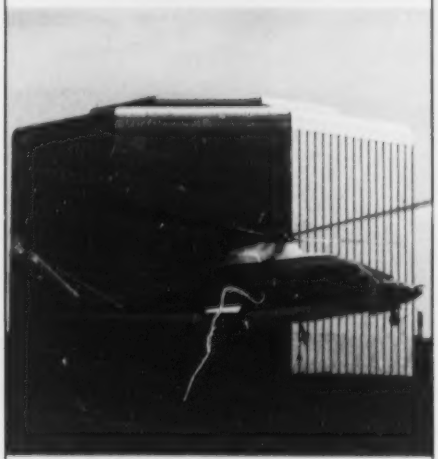

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